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Albatros2
Modbus slave applications
Engineering

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Building Technologies

Siemens Switzerland Ltd
Building Technologies Division
International Headquarters
Theilerstrasse 1a
6300 Zug
Switzerland
Tel. +41 58 724 24 24
www.siemens.com/buildingtechnologies

Inhalt

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General security notes on Modbus engineering

The Modbus interface has no protective mechanisms for data formats or registries.

Improper access may result in undefined system states or faults.

We recommend implementing appropriate measures, in particular for the user interface, to prevent writing and setting invalid values.

1 About this document

1.1 Revision history

Version	Date	Changes	Section
a	Current version	First edition	

1.2 Before you start

1.2.1 Trademarks

The table below lists the third-party trademarks used in this document and their legal owners. The use of these trademarks is subject to international and national statutory provisions.

Trademarks	Legal owner
MODBUS®	The Modbus Organization, Hopkinton, MA, USA

All product names listed in the table are registered (®) or not registered (™) trademarks of the owner listed in the table. We forgo the labeling (e.g. using the symbols ® and ™) of trademarks for the purposes of legibility based on the reference in this section.

1.2.2 Copyright

2 Introduction to Modbus slave applications

This document describes how to engineer Modbus slave applications for the Albatros2 product range.

Validity

The information refers to the following controllers:

- RVS21…
- RVS61…
- RVS43…
- LMS…

Requirements

- The Albatros2 controller (RVS or LMS) communications slave on Modbus is required for the applications described in this document.

Modbus applications

The following Modbus slave applications are supported:

1. **Controller network**: Exchange process signals with a third-party controller
2. **BAC system/operator unit**: Exchange process data, parameters, operating values.

Additional information

The controller manuals provide additional information on these applications.

Section assignment

- The section "Modbus process signalss" is only relevant for the application "Controller network".
- The remaining sections are relevant to both applications.
- The Modbus parameter list includes, between register addresses 41984 and 42084, the list of process signals (for controller network).
- The remaining register addresses on the Modbus parameter list are relevant to the application "BAC system/operator unit ".

3 Modbus parameter list

Note to the reader

- The columns RVS21 to LMS contain the required "OV version Modbus" (operating line 6655) for your controller in order to use the corresponding Modbus register.

  The Modbus registers with the same operating lines must be read/written together. For example: The parameter with the "Status / Command" register is written twice:

– 1st line, e.g. 1030/730 (Summer/winter heating limit): Parameter value.
– 2nd line, e.g. 1031/730 (Status/Command): Parameter status. Description in "Status / command", Sec. 4.

- Structure and example for date formats, e.g. for 40180/471 (Monday 1st stage on), is included in Sec. 5 "Date formats".
- The process signals required for the Modbus application “Controller network” are in the list in a separate section between register addresses 41984 and 42084.

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
Modbus OV version				0x0400...0x07FF		**Heating circuit 1**						
1.0	1.0	1.0	1.0	1024	R/W	700	Operating Mode	0: Protection x 1: Automatic 2: Reduced 3: Comfort	0	3		1
1.0	1.0	1.0	1.0	1025	R/W	710	Comfort setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	1026	R/W	712	Reduced setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	1027	R/W	714	Frost protection setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	1028	R/W	720	Heating curve slope		0.1	4		1/50
1.0	1.0	1.0	1.0	1029	R/W	721	Heating curve displacement		-4.5	4.5	°C	1/64
1.0	1.0	1.0	1.0	1030	R/W	730	Summer/winter heating limit		8	30	°C	1/64
1.0	1.0	1.0	1.0	1031	R/W	730	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	1032	R/W	732	24-hour heating limit		-10	10	°C	1/64
1.0	1.0	1.0	1.0	1033	R/W	732	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	1034	R/W	740	Flow temp setpoint min		8	95	°C	1/64
1.0	1.0	1.0	1.0	1035	R/W	741	Flow temp setpoint max		8	95	°C	1/64
1.0	1.0	1.0	1.0	1036	R/W	742	Flow temp setpoint room stat		8	95	°C	1/64
1.0	1.0	1.0	1.0	1037	R/W	742	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	1038	R/W	750	Room influence		1	100	%	1
1.0	1.0	1.0	1.0	1039	R/W	750	Status/Command	see section "Status / command"				
1.0	1.0			1040	R	8739	Relative room humidity 1		0	100	%	1
1.0	1.0			1041	R	8739	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	1042	R	8740	Room temperature 1		0	50	°C	1/64
1.0	1.0	1.0	1.0	1043	R	8740	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	1044	R	8741	Room setpoint 1		4	35	°C	1/64
1.0	1.0	1.0	1.0	1045	R	8741	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	1046	R	8743	Flow temperature 1		0	140	°C	1/64
1.0	1.0	1.0	1.0	1047	R	8743	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	1048	R	8744	Flow temperature setpoint 1		0	140	°C	1/64
1.0	1.0	1.0	1.0	1049	R	8744	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	1050	R	8749	Room thermostat 1	x 0: No demand 1: Demand	0	1		1
1.0	1.0	1.0	1.0	1051	R	8749	Status	see section "Status / command"				
1.0	1.0			1052	R/W	6740	Flow temp 1 alarm		10	240	min	1
1.0	1.0			1053	R/W	6740	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	1054	R	8000	State heating circuit 1	Status codes: see controller manual	0	1000		1
1.3	1.3	1.0	1.0	1055	R/W	5710	Heating circuit 1	0: Off 1: On	0	1		1
1.5	1.5			1056	R/W	701	Warmer / Cooler	0: Cooler x 1: … 2: Warmer	0	2		1
1.5	1.5			1057	R		Warmer / Cooler Lower Limit	x 0: Cooler 1: … 2: Warmer	0	2		1
1.5	1.5			1058	R		Warmer / Cooler Upper Limit	x 0: Cooler 1: … 2: Warmer	0	2		1
1.5	1.5			1059	R/W	716	Comfort setpoint max heating circuit 1		4	35	°C	1/64
1.5	1.5			1060	R/W	726	Heating curve adaptation heat circuit 1	x 0: Off 1: On	0	1		1
1.5	1.5			1061	R/W	733	Ext'n 24-hour heating limit HC1	0: No x 1: Yes	0	1		1
1.5	1.5			1062	R/W	744	Swi on ratio room thermosta HC1		1	99	%	1
1.5	1.5			1063	R/W	744	Status/Command	see section "Status / command"				
1.5	1.5			1064	R/W	760	Room temperature limitation heating circuit 1		0	4	°C	1/64
1.5	1.5			1065	R/W	760	Status/Command	see section "Status / command"				
1.5	1.5			1066	R/W	770	Room temp setpoint boost HC1 (boost heating)		0	20	°C	1/64
1.5	1.5			1067	R/W	770	Status/Command	see section "Status / command"				
1.5	1.5			1068	R/W	780	Quick setback heat circuit 1	0: Off x 1: Up to reduced setpoint 2: Up to protection setpoint	0	2		1
1.5	1.5			1069	R/W	790	Optimum start control max forward shift HC1		00:00	06:00	h:m	1/60
1.5	1.5			1070	R/W	791	Optimum stop control max forward shift HC1		00:00	06:00	h:m	1/60
1.5	1.5			1071	R/W	794	Heat up gradient		0	600	min/K	1
1.5	1.5			1072	R/W	800	Start reduced room temp setpoint increase HC1		-30	10	°C	1/64
1.5	1.5			1073	R/W	800	Status/Command	see section "Status / command"				
1.5	1.5			1074	R/W	801	End reduced room temp setpoint increase HC1		-30	10	°C	1/64
1.5	1.5			1075	R/W	810	Frost protection for heating circuit pump HC1	0: Off x 1: On	0	1		1
1.5	1.5			1076	R/W	820	Pump heating circuit overtemp protection HC1	0: Off x 1: On	0	1		1
1.5	1.5	1.0	1.0	1077	R/W	830	Mixing valve setpoint boost heating circuit 1		0	50	°C	1/64
1.5	1.5			1078	R/W	832	Actuator control mode heat circuit 1	0: Two-position x 1: Three-position	0	1		1
1.5	1.5			1079	R/W	833	Actuator switching differential heat circuit 1		0	20	°C	1/64
1.5	1.5			1080	R/W	834	Actuator running time heat circuit 1		30	650	s	1
1.5	1.5			1081	R/W	835	P-band (Xp) heat circuit 1		1	100	°C	1/64
1.5	1.5			1082	R/W	836	Integral action time (Tn) heat circuit 1		10	650	s	1
1.5	1.5			1083	R/W	850	Flooring plaster dry up function HC1	x 0: Off 1: Functional heating 2: 'Belegreif' heating 3: Functional + 'Belegreif' heating 4: Belegreif' + functional heating 5: Manuell	0	5		1
1.5	1.5			1084	R/W	851	Floor setpoint manually HC1		0	95	°C	1/64
1.5	1.5			1085	R	855	Flow temp setpoint flooring plaster dry up HC1		0	95	°C	1/64
1.5	1.5			1086	R	855	Status					
1.5	1.5			1087	R	856	Flooring plaster dry up day HC1		0	32		1
1.5	1.5			1088	R	857	Floor curing HC1 days fulfilled		0	32		1
1.5	1.5			1089	R/W	861	Overtemperature drop heating circuit 1	0: Off 1: Heating mode x 2: Always	0	2		1
1.5	1.5			1090	R/W	870	Heating circuit 1 with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			1091	R/W	872	Heating circuit 1 with precontr/primary pump	0: No x 1: Yes	0	1		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5	1.0	1.0	1092	R/W	882	Pump speed min heating circuit 1		0	100	%	1
1.5	1.5	1.0	1.0	1093	R/W	883	Pump speed max heating circuit 1		0	100	%	1
1.5	1.5	1.0		1094	R/W	900	Operating mode changeover heating circuit 1	0: None x 1: Protection 2: Reduced 3: Comfort 4: Automatic	0	4		1
1.5	1.5	1.0	1.0	1095	R	8730	Status heat circuit pump 1	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	1096	R	8730	Status					
1.5	1.5	1.0	1.0	1097	R	8731	Status heat circuit mixing valve 1 opens	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	1098	R	8731	Status					
1.5	1.5	1.0	1.0	1099	R	8732	Status heat circuit mixing valve 1 closes	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	1100	R	8732	Status					
1.5	1.5	1.0	1.0	1101	R	8735	Heat circuit pump speed HC1		0	100	%	1
1.5	1.5	1.0	1.0	1102	R	8735	Status					
1.5	1.5			1103	R/W	8742	Room temperature model 1		0	50	°C	1/64
1.5	1.5			1104	R	8742	Status		0	50	°C	1/64
1.5	1.5		1.0	1105	R		State 2nd speed heating circuit pump (Q21)	x 0: Off 1: On	0	1		
1.5	1.5		1.0	1106	R		Status					
1.5	1.5			1107	R		Operating mode changeover zone 1	x 0: Inactive 1: Active	0	1		
1.5	1.5			1108	R	8739	Relative room humidity 1		0	100	%	1/100
1.5	1.5			1109	R	8739	Status	Status: (Read) Bit0:ObjectUnused Bit1:SensorShortCircuit Bit6:DeviceFailure				
1.5	1.5			1110	W		Operating level override 1	x 0: No override 1: Override to reduced level 2: Override to nominal level	0	2		1
1.5	1.5			1111	R/W	813	Frost protection room model 1	0: Off x 1: On	0	1		1
1.5	1.5			1112	R/W	862	Max room temp ex heat draw		4	35	°C	1/64
1.5	1.5			1113	R/W	862	Status/Command	see section "Status / command"				
1.6	1.6			1114	R/W	761	Heating limit room control HC1		0	100	%	1
1.6	1.6			1115	R/W	761	Status/Command	see section "Status / command"				
1.6	1.6			1116	R/W	762	Prop band Xp room contr		0.5	32	°C	1/64
1.6	1.6			1117	R/W	763	Int act time Tn room contr		10	24000	s	1
1.6	1.6			1118	R/W	764	Der act time Tv room contr		10	2400	s	1
1.6	1.6			1119	R/W	766	SD room tempertaure limitation		0	100	%	1
1.6	1.6			1120	R/W	863	Minimum flow function	0: Off x 1: On	0	1		1
1.6	1.6			1121	R/W	880	Pump speed reduction heating circuit 1	0: According HC operating level x 1: According characteristic curve	0	1		1
1.6	1.6			1122	R/W	881	Starting speed HC1		0	100	%	1
1.6	1.6			1123	R/W	881	Status/Command	see section "Status / command"				
1.6	1.6			1124	R/W	885	Pump speed min OEM heating circuit 1		0	100	%	1
1.6	1.6			1125	R/W	886	Pump speed max OEM HC1		0	100	%	1
1.6	1.6			1126	R/W	888	Curve readj at 50% speed HC1		0	100	%	1
1.6	1.6			1127	R/W	890	Flow setp readj speed ctrl HC1	0: No x 1: Yes	0	1		1
			1.0	1128	R/W	882	Pump speed min heating circuit 1		0	100	%	1
			1.0	1129	R/W	883	Pump speed max heating circuit 1		0	100	%	1
				0x0800...0x0BFF	**Cooling circuit 1**							
1.0	1.0	1.0		2048	R/W	901	Operating mode	0: Off x 1: Automatic	0	3		1
1.0	1.0	1.0		2049	R/W	902	Comfort setpoint		15	40	°C	1/64
1.6	1.6	1.0		2050	R/W	907	Release cooling circuit 1	x 1: Time program heating circuit 2: Time program cooling circuit	1	2		1
1.0	1.0	1.0		2051	R/W	908	Flow temp setp at OT 25°C		6	35	°C	1/64
1.0	1.0	1.0		2052	R/W	909	Flow temp setp at OT 35°C		6	35	°C	1/64
1.0	1.0	1.0		2053	R/W	912	Cooling limit at OT		8	35	°C	1/64
1.0	1.0	1.0		2054	R/W	912	Status/Command	see section "Status / command"				
1.0	1.0	1.0		2055	R/W	913	Lock time at end of heating		8	100	h	1
1.0	1.0	1.0		2056	R/W	913	Status/Command	see section "Status / command"				
1.0	1.0			2057	R/W	918	Summer comp start at OT		20	50	°C	1/64
1.0	1.0			2058	R/W	919	Summer comp end at OT		20	50	°C	1/64
1.0	1.0			2059	R/W	920	Summer comp setp increase		1	10	°C	1/64
1.0	1.0			2060	R/W	920	Status/Command	see section "Status / command"				
1.0	1.0			2061	R/W	923	Flow temp setp min OT 25°C		6	35	°C	1/64
1.0	1.0			2062	R/W	924	Flow temp setp min OT 35°C		6	35	°C	1/64
1.0	1.0	1.0		2063	R/W	928	Room influence		1	100	%	1
1.0	1.0	1.0		2064	R/W	928	Status/Command	see section "Status / command"				
1.0	1.0			2065	R	8747	Dewpoint temp 1		0	50	°C	1/64
1.0	1.0			2066	R	8747	Status/Command	see section "Status / command"				
1.0	1.0	1.0		2067	R	8756	Flow temp cooling 1		0	140	°C	1/64
1.0	1.0	1.0		2068	R	8756	Status	see section "Status / command"				
1.0	1.0	1.0		2069	R	8757	Flow temp setp cooling 1		0	140	°C	1/64
1.0	1.0	1.0		2070	R	8757	Status	see section "Status / command"				
1.0	1.0			2071	R/W	6746	Flow temp cooling 1 alarm		10	240	min	1
1.0	1.0			2072	R/W	6746	Status/Command	see section "Status / command"				
1.0	1.0	1.0		2073	R	8004	State cooling circuit 1	see section "Status / command": Status codes: see controller manual	0	1000		1
1.5	1.5	1.0		2074	R/W	903	Room temp Reduced setpoint cooling circuit 1		5	40	°C	1/64
1.5	1.5	1.0		2075	R/W	904	Room temp protective setpoint cooling circuit 1		5	40	°C	1/64
1.5	1.5			2076	R/W	905	Comfort setpoint min cooling circuit 1		5	40	°C	1/64
1.5	1.5	1.0		2077	R/W	914	24-hour cooling limit CC1		-10	10	°C	1/64
1.5	1.5	1.0		2078	R/W	914	Status/Command	see section "Status / command"				
1.5	1.5			2079	R/W	915	Ext'n 24-hour cooling limit CC1	0: No x 1: Yes	0	1		1
1.5	1.5			2080	R/W	932	Room temp limitation cooling circuit 1		0	4	°C	1/64
1.5	1.5			2081	R/W	932	Status/Command	see section "Status / command"				
1.5	1.5			2082	R/W	935	Quick increase cooling circuit 1	0: Off	0	2		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								x 1: Up to reduced setpoint 2: Up to protection setpoint				
1.5	1.5			2083	R/W	937	Frost prot plant for cooling circuit pump 1	x 0: Off 1: On	0	1		1
1.5	1.5			2084	R/W	938	Mixing valve decrease cooling circuit 1		0	20	°C	1/64
1.5	1.5			2085	R/W	939	Actuator control mode cooling circuit 1	0: Two-position x 1: Three-position	0	1		1
1.5	1.5			2086	R/W	940	Actuator switching diff cooling circuit 1		0	20	°C	1/64
1.5	1.5			2087	R/W	941	Running time actuator cooling circuit 1		30	650	s	1
1.5	1.5			2088	R/W	942	P-band (Xp) cooling circuit 1		1	100	°C	1/64
1.5	1.5			2089	R/W	943	Integral action time (Tn) cooling circuit 1		10	650	s	1
1.5	1.5			2090	R/W	945	Mixing valve cooling circuit 1 in heating mode	1: Wert 687; 0 x 2: Open	1	2		1
1.5	1.5			2091	R/W	946	Locking time dew point limit CC1		10	600	min	1
1.5	1.5			2092	R/W	946	Status/Command	see section "Status / command"				
1.5	1.5			2093	R/W	947	Flow boost hygrostat cooling circuit 1		1	20	°C	1/64
1.5	1.5			2094	R/W	947	Status/Command	see section "Status / command"				
1.5	1.5			2095	R/W	948	Flow setp incr start at rel Humidity CC1		0	100	%	1
1.5	1.5			2096	R/W	950	Flow temp diff dewpoint		0	5	°C	1/64
1.5	1.5			2097	R/W	950	Status/Command	see section "Status / command"				
1.5	1.5			2098	R/W	962	Cooling circuit 1 with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			2099	R/W	963	Cooling circuit 1 with precontr/primary pump	0: No x 1: Yes	0	1		1
1.5	1.5			2100	R/W	969	Operating mode changeover cooling circuit 1	0: None x 1: Protection 2: Reduced 3: Comfort 4: Automatic	0	4		1
1.5	1.5			2101	R/W	5711	Cooling circuit 1	x 0: Off 1: 4-pipe system cooling 2: 2-pipe system cooling	0	2		1
1.5	1.5			2102	R/W	5712	Mixing valve 1 application	1: None 2: Cooling x 3: Heating and cooling	1	3		1
1.5	1.5	1.0		2103	R	8751	State cooling circuit pump 1	x 0: Off 1: On	0	1		1
1.5	1.5	1.0		2104	R	8751	Status	see section "Status / command"				
1.5	1.5	1.0		2105	R	8752	State cooling circuit mixing valve 1 opening	x 0: Off 1: On	0	1		1
1.5	1.5	1.0		2106	R	8752	Status	see section "Status / command"				
1.5	1.5	1.0		2107	R	8753	State cooling circuit mixing valve 1 closing	x 0: Off 1: On	0	1		1
1.5	1.5	1.0		2108	R	8753	Status	see section "Status / command"				
1.5	1.5	1.0		2109	R	8754	State diverting valve cooling	x 0: Off 1: On	0	1		1
1.5	1.5	1.0		2110	R	8754	Status	see section "Status / command"				
1.5	1.5			2111	R	9010	Room temp measurement 1		0	50	°C	1/64
1.5	1.5			2112	R	9010	Status	see section "Status / command"				
1.6	1.6			2113	R/W	929	Prop band Xp room contr		0.5	32	°C	1/64
1.6	1.6			2114	R/W	930	Int act time Tn room contr		10	24000	s	1
1.6	1.6			2115	R/W	931	Der act time Tv room contr		10	2400	s	1
				0x0C00…0x0FFF		**Ventilation 1**						
1.5	1.5			3072	R/W	970	Operating mode	0: Off x 1: Automatic 2: stage 1 3: stage 2 4: stage 3	0	4		1
1.5	1.5			3073	R/W	974	Air quality Comfort		0	2000	ppm	1
1.5	1.5			3074	R/W	975	Air quality Reduced		0	2000	ppm	1
1.5	1.5			3075	R/W	977	Boost ventilation	x 0: … 1: Boost ventilation	0	1		1
1.5	1.5			3076	R/W	978	Duration boost ventilation		0	240	min	1
1.5	1.5			3077	R/W	979	Stage boost ventilation	0: Off 1: stage 1 2: stage 2 x 3: stage 3	0	3		1
1.5	1.5			3078	R/W	981	Forward shift night cooling		0	1440	min	1
1.5	1.5			3079	R/W	983	Stage night cooling	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			3080	R/W	985	Room humidity limit		1	99	%	1
1.5	1.5			3081	R/W	985	Status/Command	see section "Status / command"				
1.5	1.5			3082	R/W	987	Stage room humidity limit	x 0: Off 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			3083	R/W	989	Stage Comfort	0: Off 1: stage 1 x 2: stage 2 3: stage 3	0	3		1
1.5	1.5			3084	R/W	991	Stage Reduced	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			3085	R/W	992	Stage Protection	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			3086	R/W	995	Operating mode changeover	0: None x 1: Off 2: stage 1 3: stage 2 4: stage 3	0	4		1
1.5	1.5			3087	R/W	996	Duration ventilation switch		0	240	min	1
1.5	1.5			3088	R/W	997	Stage ventilation switch	0: Off	0	3		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								x 1: stage 1 2: stage 2 3: stage 3				
1.5	1.5			3089	R/W		P-band (Xp) indoor air quality		0	2000	ppm	1
1.5	1.5			3090	R/W		Min duration night cooling		0	720	min	1
1.5	1.5			3091	R/W		Outside temp limit night cooling		0	50	°C	1/64
1.5	1.5			3092	R/W		Min temp diff room/outside for night cooling		0	20	°C	1/64
1.5	1.5			3093	R/W		Room humidity limitation, switching differential		0	20	%	1
1.5	1.5			3094	R/W		Room humidity limitation, on time		0	720	min	1
1.5	1.5			3095	R/W		Room humidity limitation, off time		0	720	min	1
1.5	1.5			3096	R/W		Holiday mode, switch-on time ventilation		00:00	23:50	hh:mm	1/60
1.5	1.5			3097	R/W		Holiday mode, on time ventilation		0	360	min	1
1.5	1.5			3098	R/W	9901	Operating mode	0: Protection x 1: Automatic 2: Reduced 3: Comfort	0	3		1
1.5	1.5			3099	R/W	9902	Comfort setpoint		5	40	°C	1/64
1.5	1.5			3100	R/W	9903	Reduced setpoint		5	40	°C	1/64
1.5	1.5			3101	R/W		Start of summer compensation at outside temp		20	35	°C	1/64
1.5	1.5			3102	R/W		End of summer compensation at outside temp		20	35	°C	1/64
1.5	1.5			3103	R/W		Summer compensation, setpoint increase		1	10	°C	1/64
1.5	1.5			3104	R/W		Status/Command	see section "Status / command"				
1.5	1.5			3105	R/W		Release	1: Wert 682; 0 x 2: Time program heating circuit 3: Time program 5 4: Time program ventilation	1	4		
1.5	1.5			3106	R	8935	Indoor air quality 1		0	2000	ppm	1
1.5	1.5			3107	R	8935	Status	see section "Status / command"				
1.5	1.5			3108	R	8937	Ventilation stage 1	x 0: Off 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			3109	R	8932	Outside air temperature		-50	50	°C	1/64
1.5	1.5			3110	R	8932	Status	see section "Status / command"				
1.5	1.5			3111	R	8027	State ventilation 1		0	1000		1
1.5	1.5			3112	R		State of outside air temp control (Q17)	x 0: Off 1: On	0	1		1
1.5	1.5			3113	R		Status	see section "Status / command"				
1.5	1.5			3114	R		State of ventilation fan 1 (K51)	x 0: Off 1: On	0	1		1
1.5	1.5			3115	R		Status	see section "Status / command"				
1.5	1.5			3116	R		State of ventilation bypass 1 (K54)	x 0: Off 1: On	0	1		1
1.5	1.5			3117	R		Status	see section "Status / command"				
1.5	1.5			3118	R		Room temp setpoint air cooling 1		4	35	°C	1/64
1.5	1.5			3119	R		Status	see section "Status / command"				
1.5	1.5			3120	R/W	7084	Maintenance interval ventilation 1		100	10000	h	1
1.5	1.5			3121	R/W	7084	Status/Command	see section "Status / command"				
1.5	1.5			3122	R/W	7085	Time since maintenance ventilation 1		0	10000	h	1
				0x1000...0x13FF		**Heating circuit 2**						
1.0	1.0	1.0	1.0	4096	R/W	1000	Op.mode	0: Protection x 1: Automatic 2: Reduced 3: Comfort	0	3		1
1.0	1.0	1.0	1.0	4097	R/W	1010	Comfort setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	4098	R/W	1012	Reduced setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	4099	R/W	1014	Frost protection setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	4100	R/W	1020	Heating curve slope		0.1	4		1/50
1.0	1.0	1.0	1.0	4101	R/W	1021	Heating curve displacement		-4.5	4.5	°C	1/64
1.0	1.0	1.0	1.0	4102	R/W	1030	Summer/winter heating limit		8	30	°C	1/64
1.0	1.0	1.0	1.0	4103	R/W	1030	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	4104	R/W	1032	24-hour heating limit		-10	10	°C	1/64
1.0	1.0	1.0	1.0	4105	R/W	1032	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	4106	R/W	1040	Flow temp setpoint min		8	95	°C	1/64
1.0	1.0	1.0	1.0	4107	R/W	1041	Flow temp setpoint max		8	95	°C	1/64
1.0	1.0	1.0	1.0	4108	R/W	1042	Flow temp setpoint room stat		8	95	°C	1/64
1.0	1.0	1.0	1.0	4109	R/W	1042	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	4110	R/W	1050	Room influence		1	100	%	1
1.0	1.0	1.0	1.0	4111	R/W	1050	Status/Command	see section "Status / command"				
1.0	1.0			4112	R	8769	Relative room humidity 2		0	100	%	1
1.0	1.0			4113	R	8769	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	4114	R	8770	Room temp 2		0	50	°C	1/64
1.0	1.0	1.0	1.0	4115	R	8770	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	4116	R	8771	Room setpoint 2		4	35	°C	1/64
1.0	1.0	1.0	1.0	4117	R	8771	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	4118	R	8773	Flow temp 2		0	140	°C	1/64
1.0	1.0	1.0	1.0	4119	R	8773	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	4120	R	8774	Flow temp setpoint 2		0	140	°C	1/64
1.0	1.0	1.0	1.0	4121	R	8774	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	4122	R	8779	Room thermostat 2	x 0: No demand 1: Demand	0	1		1
1.0	1.0		1.0	4123	R	8779	Status	see section "Status / command"				
1.0	1.0			4124	R/W	6741	Flow temp 2 alarm		10	240	min	1
1.0	1.0			4125	R/W	6741	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	4126	R	8001	State heating circuit 2	see section "Status / command" Status codes: see controller manual	0	1000		1
1.3	1.3	1.0	1.0	4127	R/W	5715	Heating circuit 2	0: Off 1: On	0	1		1
1.5	1.5			4128	R/W	1001	Warmer / Cooler	0: Cooler x 1: … 2: Warmer	0	2		1
1.5	1.5			4129	R		Warmer / Cooler Lower Limit	x 0: Cooler 1: … 2: Warmer	0	2		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			4130	R		Warmer / Cooler Upper Limit	x 0: Cooler 1: … 2: Warmer	0	2		1
1.5	1.5			4131	R/W	1016	Comfort setpoint max HC2		4	35	°C	1/64
1.5	1.5			4132	R/W	1026	Heating curve adaptation heat circuit 2	x 0: Off 1: On	0	1		1
1.5	1.5			4133	R/W	1033	Ext'n 24-hour heating limit HC2	0: No x 1: Yes	0	1		1
1.5	1.5			4134	R/W	1044	Swi on ratio room thermosta HC2		1	99	%	1
1.5	1.5			4135	R/W	1044	Status/Command	see section "Status / command"				
1.5	1.5			4136	R/W	1060	Room temperature limitation heating circuit 2		0	4	°C	1/64
1.5	1.5			4137	R/W	1060	Status/Command	see section "Status / command"				
1.5	1.5			4138	R/W	1070	Room temp setpoint boost HC2 (boost heating)		0	20	°C	1/64
1.5	1.5			4139	R/W	1070	Status/Command	see section "Status / command"				
1.5	1.5			4140	R/W	1080	Quick setback heat circuit 2	0: Off x 1: Up to reduced setpoint 2: Up to protection setpoint	0	2		1
1.5	1.5			4141	R/W	1090	Optimum start control max forward shift HC2		00:00	06:00	h:m	1/60
1.5	1.5			4142	R/W	1091	Optimum stop control max forward shift HC2		00:00	06:00	h:m	1/60
1.5	1.5			4143	R/W	1094	Heat up gradient		0	600	min/K	1
1.5	1.5			4144	R/W	1100	Start reduced room temp setpoint increase HC2		-30	10	°C	1/64
1.5	1.5			4145	R/W	1100	Status/Command	see section "Status / command"				
1.5	1.5			4146	R/W	1101	End reduced room temp setpoint increase HC2		-30	10	°C	1/64
1.5	1.5			4147	R/W	1110	Frost protection for heating circuit pump HC2	0: Off x 1: On	0	1		1
1.5	1.5			4148	R/W	1120	Pump heating circuit overtemp protection HC2	0: Off x 1: On	0	1		1
1.5	1.5	1.0	1.0	4149	R/W	1130	Mixing valve setpoint boost heating circuit 2		0	50	°C	1/64
1.5	1.5			4150	R/W	1132	Actuator control mode heat circuit 2	0: Two-position x 1: Three-position	0	1		1
1.5	1.5			4151	R/W	1133	Actuator switching differential heat circuit 2		0	20	°C	1/64
1.5	1.5			4152	R/W	1134	Actuator running time heat circuit 2		30	650	s	1
1.5	1.5			4153	R/W	1135	P-band (Xp) heat circuit 2		1	100	°C	1/64
1.5	1.5			4154	R/W	1136	Integral action time (Tn) heat circuit 2		10	650	s	1
1.5	1.5			4155	R/W	1150	Flooring plaster dry up function HC1	x 0: Off 1: Functional heating 2: 'Belegreif' heating 3: Functional + 'Belegreif' heating 4: Belegreif' + functional heating 5: Manuell	0	5		1
1.5	1.5			4156	R/W	1151	Floor setpoint manually HC2		0	95	°C	1/64
1.5	1.5			4157	R	1155	Flow temp setpoint flooring plaster dry up HC2		0	95	°C	1/64
1.5	1.5			4158	R	1155	Status					
1.5	1.5			4159	R	1156	Flooring plaster dry up day HC2		0	32		1
1.5	1.5			4160	R	1157	Floor curing HC2 days fulfilled		0	32		1
1.5	1.5			4161	R/W	1161	Overtemperature drop heating circuit 2	0: Off 1: Heating mode x 2: Always	0	2		1
1.5	1.5			4162	R/W	1170	Heating circuit 2 with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			4163	R/W	1172	Heating circuit 2 with precontr/primary pump	0: No x 1: Yes	0	1		1
1.5	1.5	1.0	1.0	4164	R/W	1182	Pump speed min heating circuit 2		0	100	%	1
1.5	1.5	1.0	1.0	4165	R/W	1183	Pump speed max heating circuit 2		0	100	%	1
1.5	1.5			4166	R/W	1200	Operating mode changeover heating circuit 2	0: None x 1: Protection 2: Reduced 3: Comfort 4: Automatic	0	4		1
1.5	1.5	1.0	1.0	4167	R	8760	State heating circuit pump 2	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	4168	R	8760	Status					
1.5	1.5	1.0	1.0	4169	R	8761	State heating circuit mixing valve 2 opening	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	4170	R	8761	Status					
1.5	1.5	1.0	1.0	4171	R	8762	State heating circuit mixing valve 2 closing	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	4172	R	8762	Status					
1.5	1.5	1.0	1.0	4173	R	8765	Heat circuit pump speed HC2		0	100	%	1
1.5	1.5	1.0	1.0	4174	R	8765	Status					
1.5	1.5			4175	R/W	8772	Room temperature model 2		0	50	°C	1/64
1.5	1.5			4176	R	8772	Status		0	50	°C	1/64
1.5	1.5		1.0	4177	R		State 2nd speed heating circuit pump (Q22)	x 0: Off 1: On	0	1		
1.5	1.5		1.0	4178	R		Status					
1.5	1.5			4179	R		Operating mode changeover zone 2	x 0: Inactive 1: Active	0	1		
1.5	1.5			4180	R	8769	Relative room humidity 2		0	100	%	1/100
1.5	1.5			4181	R	8769	Status	see section "Status / command"				
1.5	1.5			4182	R/W		Operating level override 2	x 0: No override 1: Override to reduced level 2: Override to nominal level	0	2		1
1.5	1.5			4183	R/W	1113	Frost protection room model 2	0: Off x 1: On	0	1		1
1.5	1.5			4184	R/W	1162	Max room temp ex heat draw		4	35	°C	1/64
1.5	1.5			4185	R/W	1162	Status/Command	see section "Status / command"				
1.6	1.6			4186	R/W	1061	Heating limit room control HC2		0	100	%	1
1.6	1.6			4187	R/W	1061	Status/Command	see section "Status / command"				
1.6	1.6			4188	R/W	1062	Prop band Xp room contr		0.5	32	°C	1/64
1.6	1.6			4189	R/W	1063	Int act time Tn room contr		10	24000	s	1
1.6	1.6			4190	R/W	1064	Der act time Tv room contr		10	2400	s	1
1.6	1.6			4191	R/W	1066	SD room tempertaure limitation		0	100	%	1
1.6	1.6			4192	R/W	1163	Minimum flow function	0: Off x 1: On	0	1		1
1.6	1.6			4193	R/W	1180	Pump speed reduction heating circuit 2	0: According HC operating level x 1: According characteristic curve	0	1		1
1.6	1.6			4194	R/W	1181	Starting speed HC2		0	100	%	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.6	1.6			4195	R/W	1181	Status/Command	see section "Status / command"				
1.6	1.6			4196	R/W	1185	Pump speed min OEM heating circuit 2		0	100	%	1
1.6	1.6			4197	R/W	1186	Pump speed max OEM HC2		0	100	%	1
1.6	1.6			4198	R/W	1188	Curve readj at 50% speed HC2		0	100	%	1
1.6	1.6			4199	R/W	1190	Flow setp readj speed ctrl HC2	0: No x 1: Yes	0	1		1
			1.0	4200	R/W	1182	Pump speed min heating circuit 2		0	100	%	1
			1.0	4201	R/W	1183	Pump speed max heating circuit 2		0	100	%	1
				0x1400...0x17FF		**Cooling circuit 2**						
1.0	1.0			5120	R/W	1201	Operating mode cooling circuit 2	0: Off x 1: Automatic	0	1		1
1.0	1.0			5121	R/W	1202	Room temp Comfort setpoint cooling circuit 2		15	40	°C	1/64
1.6	1.6			5122	R/W	1207	Release cooling circuit 2	x 1: Time program heating circuit 2: Time program cooling circuit	1	2		1
1.0	1.0			5123	R/W	1208	Flow setpoint at outside temp 25°C CC2		6	35	°C	1/64
1.0	1.0			5124	R/W	1209	Flow setpoint at outside temp 35°C CC2		6	35	°C	1/64
1.0	1.0			5125	R/W	1212	Cooling limit at outs temp cooling circuit 2		8	35	°C	1/64
1.0	1.0			5126	R/W	1212	Status/Command	see section "Status / command"				
1.0	1.0			5127	R/W	1213	Remaining time after heating cooling circuit 2		8	100	h	1
1.0	1.0			5128	R/W	1213	Status/Command	see section "Status / command"				
1.0	1.0			5129	R/W	1218	Summer comp start at OT		20	50	°C	1/64
1.0	1.0			5130	R/W	1219	Summer comp end at OT		20	50	°C	1/64
1.0	1.0			5131	R/W	1220	Summer comp setp increase		1	10	°C	1/64
1.0	1.0			5132	R/W	1220	Status/Command	see section "Status / command"				
1.0	1.0			5133	R/W	1223	Flow setpoint min at outside temp 25°C CC2		6	35	°C	1/64
1.0	1.0			5134	R/W	1224	Flow setpoint min at outside temp 35°C CC2		6	35	°C	1/64
1.0	1.0			5135	R/W	1228	Room temperature gain factor cooling circuit 2		1	100	%	1
1.0	1.0			5136	R/W	1228	Status/Command	see section "Status / command"				
1.0	1.0			5137	R	8777	Dewpoint temp 2		0	50	°C	1/64
1.0	1.0			5138	R	8777	Status/Command	see section "Status / command"				
1.0	1.0			5139	R	8786	Flow temp cooling 2		0	140	°C	1/64
1.0	1.0			5140	R	8786	Status	see section "Status / command"				
1.0	1.0			5141	R	8787	Flow temp setp cooling 2		0	140	°C	1/64
1.0	1.0			5142	R	8787	Status	see section "Status / command"				
1.0	1.0			5143	R/W	6747	Flow temp cooling 2 alarm		10	240	min	1
1.0	1.0			5144	R/W	6747	Status/Command	see section "Status / command"				
1.0	1.0			5145	R	8025	State cooling circuit 2	see section "Status / command" Status codes: see controller manual	0	1000		1
1.5	1.5			5146	R/W	1203	Room temp Reduced setpoint cooling circuit 2		5	40	°C	1/64
1.5	1.5			5147	R/W	1204	Room temp protective setpoint cooling circuit 2		5	40	°C	1/64
1.5	1.5			5148	R/W	1205	Comfort setpoint min cooling circuit 2		5	40	°C	1/64
1.5	1.5			5149	R/W	1214	24-hour cooling limit CC2		-10	10	°C	1/64
1.5	1.5			5150	R/W	1214	Status/Command	see section "Status / command"				
1.5	1.5			5151	R/W	1215	Ext'n 24-hour cooling limit CC2	0: No x 1: Yes	0	1		1
1.5	1.5			5152	R/W	1232	Room temp limitation cooling circuit 2		0	4	°C	1/64
1.5	1.5			5153	R/W	1232	Status/Command	see section "Status / command"				
1.5	1.5			5154	R/W	1235	Quick increase cooling circuit 2	0: Off x 1: Up to reduced setpoint 2: Up to protection setpoint	0	2		1
1.5	1.5			5155	R/W	1237	Frost prot plant for cooling circuit pump 2	x 0: Off 1: On	0	1		1
1.5	1.5			5156	R/W	1238	Mixing valve decrease cooling circuit 2		0	20	°C	1/64
1.5	1.5			5157	R/W	1239	Actuator control mode cooling circuit 2	0: Two-position x 1: Three-position	0	1		1
1.5	1.5			5158	R/W	1240	Actuator switching diff cooling circuit 2		0	20	°C	1/64
1.5	1.5			5159	R/W	1241	Running time actuator cooling circuit 2		30	650	s	1
1.5	1.5			5160	R/W	1242	P-band (Xp) cooling circuit 2		1	100	°C	1/64
1.5	1.5			5161	R/W	1243	Integral action time (Tn) cooling circuit 2		10	650	s	1
1.5	1.5			5162	R/W	1245	Mixing valve cooling circuit 2 in heating mode	1: Wert 687; 0 x 2: Open	1	2		1
1.5	1.5			5163	R/W	1246	Locking time dew point limit CC2		10	600	min	1
1.5	1.5			5164	R/W	1246	Status/Command	see section "Status / command"				
1.5	1.5			5165	R/W	1247	Flow boost hygrostat cooling circuit 2		1	20	°C	1/64
1.5	1.5			5166	R/W	1247	Status/Command	see section "Status / command"				
1.5	1.5			5167	R/W	1248	Flow setp incr start at rel Humidity CC2		0	100	%	1
1.5	1.5			5168	R/W	1250	Flow temp diff dewpoint CC2		0	5	°C	1/64
1.5	1.5			5169	R/W	1250	Status/Command	see section "Status / command"				
1.5	1.5			5170	R/W	1262	Cooling circuit 2 with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			5171	R/W	1263	Cooling circuit 2 with precontr/primary pump	0: No x 1: Yes	0	1		1
1.5	1.5			5172	R/W	1269	Operating mode changeover cooling circuit 2	0: None x 1: Protection 2: Reduced 3: Comfort 4: Automatic	0	4		1
1.5	1.5			5173	R/W	5716	Cooling circuit 2	x 0: Off 1: 4-pipe system cooling 2: 2-pipe system cooling	0	2		1
1.5	1.5			5174	R/W	5717	Mixing valve 2 application	1: None 2: Cooling x 3: Heating and cooling	1	3		1
1.5	1.5			5175	R	8781	State cooling circuit pump 2	x 0: Off 1: On	0	1		1
1.5	1.5			5176	R	8781	Status	see section "Status / command"				
1.5	1.5			5177	R	8782	State cooling circuit mixing valve 2 opening	x 0: Off 1: On	0	1		1
1.5	1.5			5178	R	8782	Status	see section "Status / command"				
1.5	1.5			5179	R	8783	State cooling circuit mixing valve 2 closing	x 0: Off 1: On	0	1		1
1.5	1.5			5180	R	8783	Status	see section "Status / command"				
1.5	1.5			5181	R	8784	State diverting valve cooling 2	x 0: Off 1: On	0	1		1
1.5	1.5			5182	R	8784	Status	see section "Status / command"				
1.5	1.5			5183	R	9011	Room temp measurement 2		0	50	°C	1/64

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			5184	R	9011	Status	see section "Status / command"				
1.6	1.6			5185	R/W	1229	Prop band Xp room contr		0.5	32	°C	1/64
1.6	1.6			5186	R/W	1230	Int act time Tn room contr		10	24000	s	1
1.6	1.6			5187	R/W	1231	Der act time Tv room contr		10	2400	s	1
				0x1800…0x1BFF	**Ventilation 2**							
1.5	1.5			6144	R/W	1270	Operating mode	0: Off x 1: Automatic 2: stage 1 3: stage 2 4: stage 3	0	4		1
1.5	1.5			6145	R/W	1274	Air quality Comfort		0	2000	ppm	1
1.5	1.5			6146	R/W	1275	Air quality Reduced		0	2000	ppm	1
1.5	1.5			6147	R/W	1277	Boost ventilation	x 0: … 1: Boost ventilation	0	1		1
1.5	1.5			6148	R/W	1278	Duration boost ventilation		0	240	min	1
1.5	1.5			6149	R/W	1279	Stage boost ventilation	0: Off 1: stage 1 2: stage 2 x 3: stage 3	0	3		1
1.5	1.5			6150	R/W	1281	Forward shift night cooling		0	1440	min	1
1.5	1.5			6151	R/W	1283	Stage night cooling	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			6152	R/W	1285	Room humidity limit		1	99	%	1
1.5	1.5			6153	R/W	1285	Status/Command	see section "Status / command"				
1.5	1.5			6154	R/W	1287	Stage room humidity limit	x 0: Off 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			6155	R/W	1289	Stage Comfort	0: Off 1: stage 1 x 2: stage 2 3: stage 3	0	3		1
1.5	1.5			6156	R/W	1291	Stage Reduced	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			6157	R/W	1292	Stage Protection	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			6158	R/W	1295	Operating mode changeover	0: None x 1: Off 2: stage 1 3: stage 2 4: stage 3	0	4		1
1.5	1.5			6159	R/W	1296	Duration ventilation switch		0	240	min	1
1.5	1.5			6160	R/W	1297	Stage ventilation switch	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			6161	R/W		P-band (Xp) indoor air quality		0	2000	ppm	1
1.5	1.5			6162	R/W		Min duration night cooling		0	720	min	1
1.5	1.5			6163	R/W		Outside temp limit night cooling		0	50	°C	1/64
1.5	1.5			6164	R/W		Min temp diff room/outside for night cooling		0	20	°C	1/64
1.5	1.5			6165	R/W		Room humidity limitation, switching differential		0	20	%	1
1.5	1.5			6166	R/W		Room humidity limitation, on time		0	720	min	1
1.5	1.5			6167	R/W		Room humidity limitation, off time		0	720	min	1
1.5	1.5			6168	R/W		Holiday mode, switch-on time ventilation		00:00	23:50	hh:mm	1/60
1.5	1.5			6169	R/W		Holiday mode, on time ventilation		0	360	min	1
1.5	1.5			6170	R/W	9904	Operating mode	0: Protection x 1: Automatic 2: Reduced 3: Comfort	0	3		1
1.5	1.5			6171	R/W	9905	Comfort setpoint		5	40	°C	1/64
1.5	1.5			6172	R/W	9906	Reduced setpoint		5	40	°C	1/64
1.5	1.5			6173	R/W		Start of summer compensation at outside temp		20	35	°C	1/64
1.5	1.5			6174	R/W		End of summer compensation at outside temp		20	35	°C	1/64
1.5	1.5			6175	R/W		Summer compensation, setpoint increase		1	10	°C	1/64
1.5	1.5			6176	R/W		Status/Command	see section "Status / command"				
1.5	1.5			6177	R/W		Release	1: Wert 682; 0 x 2: Time program heating circuit 3: Time program 5 4: Time program ventilation	1	4		
1.5	1.5			6178	R	8940	Indoor air quality 2		0	2000	ppm	1
1.5	1.5			6179	R	8940	Status	see section "Status / command"				
1.5	1.5			6180	R	8942	Ventilation stage 2	x 0: Off 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			6181	R	8028	State ventilation 2		0	1000		1
1.5	1.5			6182	R		State of ventilation fan 2 (K52)	x 0: Off 1: On	0	1		1
1.5	1.5			6183	R		Status	see section "Status / command"				
1.5	1.5			6184	R		State of ventilation bypass 2 (K55)	x 0: Off 1: On	0	1		1
1.5	1.5			6185	R		Status	see section "Status / command"				
1.5	1.5			6186	R		Room temp setpoint air cooling 2		4	35	°C	1/64
1.5	1.5			6187	R		Status	see section "Status / command"				
1.5	1.5			6188	R/W	7086	Maintenance interval ventilation 2		100	10000	h	1
1.5	1.5			6189	R/W	7086	Status/Command	see section "Status / command"				
1.5	1.5			6190	R/W	7087	Time since maintenance ventilation 2		0	10000	h	1
				0x1C00...0x1FFF	**Heating circuit 3**							
1.0	1.0	1.0	1.0	7168	R/W	1300	Operating mode	0: Protection x 1: Automatic 2: Reduced	0	3		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								3: Comfort				
1.0	1.0	1.0	1.0	7169	R/W	1310	Comfort setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	7170	R/W	1312	Reduced setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	7171	R/W	1314	Frost protection setpoint		4	35	°C	1/64
1.0	1.0	1.0	1.0	7172	R/W	1320	Heating curve slope		0.1	4		1/50
1.0	1.0	1.0	1.0	7173	R/W	1321	Heating curve displacement		-4.5	4.5	°C	1/64
1.0	1.0	1.0	1.0	7174	R/W	1330	Summer/winter heating limit		8	30	°C	1/64
1.0	1.0	1.0	1.0	7175	R/W	1330	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	7176	R/W	1332	24-hour heating limit		-10	10	°C	1/64
1.0	1.0	1.0	1.0	7177	R/W	1332	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	7178	R/W	1340	Flow temp setpoint min		8	95	°C	1/64
1.0	1.0	1.0	1.0	7179	R/W	1341	Flow temp setpoint max		8	95	°C	1/64
1.0	1.0	1.0	1.0	7180	R/W	1342	Flow temp setpoint room stat		8	95	°C	1/64
1.0	1.0	1.0	1.0	7181	R/W	1342	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	7182	R/W	1350	Room influence		1	100	%	1
1.0	1.0	1.0	1.0	7183	R/W	1350	Status/Command	see section "Status / command"				
1.0	1.0			7184	R	8799	Relative room humidity 3		0	100	%	1
1.0	1.0			7185	R	8799	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	7186	R	8800	Room temp 3		0	50	°C	1/64
1.0	1.0	1.0	1.0	7187	R	8800	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	7188	R	8801	Room setpoint 3		4	35	°C	1/64
1.0	1.0	1.0	1.0	7189	R	8801	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	7190	R	8804	Flow temp 3		0	140	°C	1/64
1.0	1.0	1.0	1.0	7191	R	8804	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	7192	R	8803	Flow temp setpoint 3		0	140	°C	1/64
1.0	1.0	1.0	1.0	7193	R	8803	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	7194	R	8809	Room thermostat 3	x 0: No demand 1: Demand	0	1		1
1.0	1.0	1.0	1.0	7195	R	8809	Status	see section "Status / command"				
1.0	1.0			7196	R/W	6742	Flow temp 3 alarm		10	240	min	1
1.0	1.0			7197	R/W	6742	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	7198	R	8002	State heating circuit 3	see section "Status / command" Status codes: see controller manual	0	1000		1
1.3	1.3	1.0	1.0	7199	R/W	5721	Heating circuit 3	0: Off 1: On	0	1		1
1.5	1.5			7200	R/W	1301	Warmer / Cooler	0: Cooler x 1: … 2: Warmer	0	2		1
1.5	1.5			7201	R		Warmer / Cooler Lower Limit	x 0: Cooler 1: … 2: Warmer	0	2		1
1.5	1.5			7202	R		Warmer / Cooler Upper Limit	x 0: Cooler 1: … 2: Warmer	0	2		1
1.5	1.5			7203	R/W	1316	Comfort setpoint max HC3/P		4	35	°C	1/64
1.5	1.5			7204	R/W	1326	Heating curve adaption HC3/P	x 0: Off 1: On	0	1		1
1.5	1.5			7205	R/W	1333	Ext'n 24-hour heating limit HC3	0: No x 1: Yes	0	1		1
1.5	1.5			7206	R/W	1344	Swi on ratio room thermosta HC3/P		1	99	%	1
1.5	1.5			7207	R/W	1344	Status/Command	see section "Status / command"				
1.5	1.5			7208	R/W	1360	Room temperature limitation HC3/P		0	4	°C	1/64
1.5	1.5			7209	R/W	1360	Status/Command	see section "Status / command"				
1.5	1.5			7210	R/W	1370	Room setpoint boost HC3/P (boost heating)		0	20	°C	1/64
1.5	1.5			7211	R/W	1370	Status/Command	see section "Status / command"				
1.5	1.5			7212	R/W	1380	Quick setback HC3/P	0: Off x 1: Up to reduced setpoint 2: Up to protection setpoint	0	2		1
1.5	1.5			7213	R/W	1390	Optimum start control max forward shift HC3/P		00:00	06:00	h:m	1/60
1.5	1.5			7214	R/W	1391	Optimum stop control max forward shift HC3/P		00:00	06:00	h:m	1/60
1.5	1.5			7215	R/W	1394	Heat up gradient		0	600	min/K	1
1.5	1.5			7216	R/W	1400	Start reduced room temp setpoint increase HC3/P		-30	10	°C	1/64
1.5	1.5			7217	R/W	1400	Status/Command	see section "Status / command"				
1.5	1.5			7218	R/W	1401	End reduced room temp setpoint increase HC3/P		-30	10	°C	1/64
1.5	1.5			7219	R/W	1410	Frost protection for heating circuit pump HC3/P	0: Off x 1: On	0	1		1
1.5	1.5			7220	R/W	1420	Pump heating circuit overtemp protection HC3/P	0: Off x 1: On	0	1		1
1.5	1.5	1.0	1.0	7221	R/W	1430	Mixing valve setpoint boost heating circuit 3/P		0	50	°C	1/64
1.5	1.5			7222	R/W	1432	Actuator control mode heat circuit 3/P	0: Two-position x 1: Three-position	0	1		1
1.5	1.5			7223	R/W	1433	Actuator switching differential heat circuit 3/P		0	20	°C	1/64
1.5	1.5			7224	R/W	1434	Actuator running time heat circuit 3/P		30	650	s	1
1.5	1.5			7225	R/W	1435	P-band (Xp) heat circuit 3/P		1	100	°C	1/64
1.5	1.5			7226	R/W	1436	Integral action time (Tn) heat circuit 3/P		10	650	s	1
1.5	1.5			7227	R/W	1450	Floor curing function HC3/P	x 0: Off 1: Functional heating 2: 'Belegreif' heating 3: Functional + 'Belegreif' heating 4: Belegreif' + functional heating 5: Manuell	0	5		1
1.5	1.5			7228	R/W	1451	Floor setpoint manually HC3/P		0	95	°C	1/64
1.5	1.5			7229	R	1455	Flow temperature setpoint floor curing HC3/P		0	95	°C	1/64
1.5	1.5			7230	R	1455	Status					
1.5	1.5			7231	R	1456	Floor curing day HC3/P		0	32		1
1.5	1.5			7232	R	1457	Floor curing HC3/P days fulfilled		0	32		1
1.5	1.5			7233	R/W	1461	Overtemperature drop heating circuit 3/P	0: Off 1: Heating mode x 2: Always	0	2		1
1.5	1.5			7234	R/W	1470	Heating circuit 3/P with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			7235	R/W	1472	Heating circuit 3/P with precontr/primary pump	0: No x 1: Yes	0	1		1
1.5	1.5	1.0	1.0	7236	R/W	1482	Pump speed min heating circuit 3/P		0	100	%	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5	1.0	1.0	7237	R/W	1483	Pump speed max heating circuit 3/P		0	100	%	1
1.5	1.5	1.0		7238	R/W	1500	Operating mode changeover HC3/P	0: None x 1: Protection 2: Reduced 3: Comfort 4: Automatic	0	4		1
1.5	1.5	1.0		7239	R	8790	State heating circuit pump 3	x 0: Off 1: On	0	1		1
1.5	1.5	1.0		7240	R	8790	Status					
1.5	1.5	1.0		7241	R	8791	State heating circuit mixing valve 3 opening	x 0: Off 1: On	0	1		1
1.5	1.5	1.0		7242	R	8791	Status					
1.5	1.5	1.0		7243	R	8792	State heating circuit mixing valve 3 closing	x 0: Off 1: On	0	1		1
1.5	1.5	1.0		7244	R	8792	Status					
1.5	1.5	1.0	1.0	7245	R	8795	Heat circuit pump speed HC3		0	100	%	1
1.5	1.5	1.0	1.0	7246	R	8795	Status					
1.5	1.5			7247	R/W	8802	Room temperature model 3		0	50	°C	1/64
1.5	1.5			7248	R	8802	Status		0	50	°C	1/64
1.5	1.5			7249	R		Stat 2nd speed heating circuit pump (Q23)	x 0: Off 1: On	0	1		1
1.5	1.5			7250	R		Status					
1.5	1.5			7251	R		Operating mode changeover zone 3	x 0: Inactive 1: Active	0	1		1
1.5	1.5			7252	R	8799	Relative room humidity 3		0	100	%	1/100
1.5	1.5			7253	R	8799	Status	see section "Status / command"				
1.5	1.5			7254	R/W		Operating level override 3	x 0: No override 1: Override to reduced level 2: Override to nominal level	0	2		1
1.5	1.5			7255	R/W	1413	Frost protection room model 3	0: Off x 1: On	0	1		1
1.5	1.5			7256	R/W	1462	Max room temp ex heat draw		4	35	°C	1/64
1.5	1.5			7257	R/W	1462	Status/Command	see section "Status / command"				
1.6	1.6			7258	R/W	1361	Heating limit room control HC3/P		0	100	%	1
1.6	1.6			7259	R/W	1361	Status/Command	see section "Status / command"				
1.6	1.6			7260	R/W	1362	Prop band Xp room contr		0.5	32	°C	1/64
1.6	1.6			7261	R/W	1363	Int act time Tn room contr		10	24000	s	1
1.6	1.6			7262	R/W	1364	Der act time Tv room contr		10	2400	s	1
1.6	1.6			7263	R/W	1366	SD room tempertaure limitation		0	100	%	1
1.6	1.6			7264	R/W	1463	Minimum flow function	0: Off x 1: On	0	1		1
1.6	1.6			7265	R/W	1480	Pump speed reduction heating circuit 3/P	0: According HC operating level x 1: According characteristic curve	0	1		1
1.6	1.6			7266	R/W	1481	Starting speed HC3		0	100	%	1
1.6	1.6			7267	R/W	1481	Status/Command	see section "Status / command"				
1.6	1.6			7268	R/W	1485	Pump speed min OEM heating circuit 3		0	100	%	1
1.6	1.6			7269	R/W	1486	Pump speed max OEM HC3		0	100	%	1
1.6	1.6			7270	R/W	1488	Curve readj at 50% speed HC3		0	100	%	1
1.6	1.6			7271	R/W	1490	Flow setp readj speed ctrl HC3	0: No x 1: Yes	0	1		1
			1.0	7272	R/W	1482	Pump speed min heating circuit 3/P		0	100	%	1
			1.0	7273	R/W	1483	Pump speed max heating circuit 3/P		0	100	%	1
				0x2000...0x23FF		**Cooling circuit 3**						
1.0	1.0			8192	R/W	1501	Operating mode cooling circuit 3	0: Off x 1: Automatic	0	1		1
1.0	1.0			8193	R/W	1502	Room temp Comfort setpoint cooling circuit 3		17	40	°C	1/64
1.6	1.6			8194	R/W	1507	Release cooling circuit 3	x 1: Time program heating circuit 2: Time program cooling circuit	1	2		1
1.0	1.0			8195	R/W	1508	Flow setpoint at outside temp 35°C CC3		6	35	°C	1/64
1.0	1.0			8196	R/W	1509	Flow setpoint at outside temp 35°C CC3		6	35	°C	1/64
1.0	1.0			8197	R/W	1512	Cooling limit at outs temp cooling circuit 3		8	35	°C	1/64
1.0	1.0			8198	R/W	1512	Status/Command	see section "Status / command"				
1.0	1.0			8199	R/W	1513	Remaining time after heating cooling circuit 3		8	100	h	1
1.0	1.0			8200	R/W	1513	Status/Command	see section "Status / command"				
1.0	1.0			8201	R/W	1518	Summer comp start at OT		20	50	°C	1/64
1.0	1.0			8202	R/W	1519	Summer comp end at OT		20	50	°C	1/64
1.0	1.0			8203	R/W	1520	Summer comp setp increase		1	10	°C	1/64
1.0	1.0			8204	R/W	1520	Status/Command	see section "Status / command"				
1.0	1.0			8205	R/W	1523	Flow setpoint min at outside temp 35°C CC3		6	35	°C	1/64
1.0	1.0			8206	R/W	1524	Flow setpoint min at outside temp 35°C CC3		6	35	°C	1/64
1.0	1.0			8207	R/W	1528	Room temperature gain factor cooling circuit 3		1	100	%	1
1.0	1.0			8208	R/W	1528	Status/Command	see section "Status / command"				
1.0	1.0			8209	R	8807	Dewpoint temp 3		0	50	°C	1/64
1.0	1.0			8210	R	8807	Status/Command	see section "Status / command"				
1.0	1.0			8211	R	8816	Flow temp cooling 3		0	140	°C	1/64
1.0	1.0			8212	R	8816	Status	see section "Status / command"				
1.0	1.0			8213	R	8817	Flow temp setp cooling 3		0	140	°C	1/64
1.0	1.0			8214	R	8817	Status	see section "Status / command"				
1.0	1.0			8215	R/W	6748	Flow temp cooling 3 alarm		10	240	min	1
1.0	1.0			8216	R/W	6748	Status/Command	see section "Status / command"				
1.0	1.0			8217	R	8026	State cooling circuit 3	see section "Status / command" Status codes: see controller manual	0	1000		1
1.5	1.5			8218	R/W	1503	Room temp Reduced setpoint cooling circuit 3		5	40	°C	1/64
1.5	1.5			8219	R/W	1504	Room temp protective setpoint cooling circuit 3		5	40	°C	1/64
1.5	1.5			8220	R/W	1505	Comfort setpoint min cooling circuit 3		5	40	°C	1/64
1.5	1.5			8221	R/W	1514	24-hour cooling limit CC3		-10	10	°C	1/64
1.5	1.5			8222	R/W	1514	Status/Command	see section "Status / command"				
1.5	1.5			8223	R/W	1515	Ext'n 24-hour cooling limit CC3	0: No x 1: Yes	0	1		1
1.5	1.5			8224	R/W	1532	Room temp limitation cooling circuit 3		0	4	°C	1/64
1.5	1.5			8225	R/W	1532	Status/Command	see section "Status / command"				
1.5	1.5			8226	R/W	1535	Quick increase cooling circuit 3	0: Off x 1: Up to reduced setpoint 2: Up to protection setpoint	0	2		1
1.5	1.5			8227	R/W	1537	Frost prot plant for cooling circuit pump 3	x 0: Off 1: On	0	1		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			8228	R/W	1538	Mixing valve decrease cooling circuit 3		0	20	°C	1/64
1.5	1.5			8229	R/W	1539	Actuator control mode cooling circuit 3	0: Two-position x 1: Three-position	0	1		1
1.5	1.5			8230	R/W	1540	Actuator switching diff cooling circuit 3		0	20	°C	1/64
1.5	1.5			8231	R/W	1541	Running time actuator cooling circuit 3		30	650	s	1
1.5	1.5			8232	R/W	1542	P-band (Xp) cooling circuit 3		1	100	°C	1/64
1.5	1.5			8233	R/W	1543	Integral action time (Tn) cooling circuit 3		10	650	s	1
1.5	1.5			8234	R/W	1545	Mixing valve cooling circuit 3 in heating mode	1: Wert 687; 0 x 2: Open	1	2		1
1.5	1.5			8235	R/W	1546	Locking time dew point limit CC3		10	600	min	1
1.5	1.5			8236	R/W	1546	Status/Command	see section "Status / command"				
1.5	1.5			8237	R/W	1547	Flow boost hygrostat cooling circuit 3		1	20	°C	1/64
1.5	1.5			8238	R/W	1547	Status/Command	see section "Status / command"				
1.5	1.5			8239	R/W	1548	Flow setp incr start at rel Humidity CC3		0	100	%	1
1.5	1.5			8240	R/W	1550	Flow temp diff dewpoint CC3		0	5	°C	1/64
1.5	1.5			8241	R/W	1550	Status/Command	see section "Status / command"				
1.5	1.5			8242	R/W	1562	Cooling circuit 3 with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			8243	R/W	1563	Cooling circuit 3 with precontr/primary pump	0: No x 1: Yes	0	1		1
1.5	1.5			8244	R/W	1569	Operating mode changeover cooling circuit 3	0: None x 1: Protection 2: Reduced 3: Comfort 4: Automatic	0	4		1
1.5	1.5			8245	R/W	5722	Cooling circuit 3	x 0: Off 1: 4-pipe system cooling 2: 2-pipe system cooling	0	2		1
1.5	1.5			8246	R/W	5723	Mixing valve 3 application	1: None 2: Cooling x 3: Heating and cooling	1	3		1
1.5	1.5			8247	R	8811	State cooling circuit pump 3	x 0: Off 1: On	0	1		1
1.5	1.5			8248	R	8811	Status	see section "Status / command"				
1.5	1.5			8249	R	8812	State cooling circuit mixing valve 3 opening	x 0: Off 1: On	0	1		1
1.5	1.5			8250	R	8812	Status	see section "Status / command"				
1.5	1.5			8251	R	8813	State cooling circuit mixing valve 3 closing	x 0: Off 1: On	0	1		1
1.5	1.5			8252	R	8813	Status	see section "Status / command"				
1.5	1.5			8253	R	8814	State diverting valve cooling 3	x 0: Off 1: On	0	1		1
1.5	1.5			8254	R	8814	Status	see section "Status / command"				
1.5	1.5			8255	R	9012	Room temp measurement 3		0	50	°C	1/64
1.5	1.5			8256	R	9012	Status	see section "Status / command"				
1.6	1.6			8257	R/W	1529	Prop band Xp room contr		0.5	32	°C	1/64
1.6	1.6			8258	R/W	1530	Int act time Tn room contr		10	24000	s	1
1.6	1.6			8259	R/W	1531	Der act time Tv room contr		10	2400	s	1
				0x2400…0x27FF	**Ventilation 3**							
1.5	1.5			9216	R/W	1570	Operating mode	0: Off x 1: Automatic 2: stage 1 3: stage 2 4: stage 3	0	4		1
1.5	1.5			9217	R/W	1574	Air quality Comfort		0	2000	ppm	1
1.5	1.5			9218	R/W	1575	Air quality Reduced		0	2000	ppm	1
1.5	1.5			9219	R/W	1577	Boost ventilation	x 0: … 1: Boost ventilation	0	1		1
1.5	1.5			9220	R/W	1578	Duration boost ventilation		0	240	min	1
1.5	1.5			9221	R/W	1579	Stage boost ventilation	0: Off 1: stage 1 2: stage 2 x 3: stage 3	0	3		1
1.5	1.5			9222	R/W	1581	Forward shift night cooling		0	1440	min	1
1.5	1.5			9223	R/W	1583	Stage night cooling	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			9224	R/W	1585	Room humidity limit		1	99	%	1
1.5	1.5			9225	R/W	1585	Status/Command	see section "Status / command"				
1.5	1.5			9226	R/W	1587	Stage room humidity limit	x 0: Off 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			9227	R/W	1589	Stage Comfort	0: Off 1: stage 1 x 2: stage 2 3: stage 3	0	3		1
1.5	1.5			9228	R/W	1591	Stage Reduced	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			9229	R/W	1592	Stage Protection	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			9230	R/W	1595	Operating mode changeover	0: None x 1: Off 2: stage 1 3: stage 2 4: stage 3	0	4		1
1.5	1.5			9231	R/W	1596	Duration ventilation switch		0	240	min	1
1.5	1.5			9232	R/W	1597	Stage ventilation switch	0: Off x 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			9233	R/W		P-band (Xp) indoor air quality		0	2000	ppm	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			9234	R/W		Min duration night cooling		0	720	min	1
1.5	1.5			9235	R/W		Outside temp limit night cooling		0	50	°C	1/64
1.5	1.5			9236	R/W		Min temp diff room/outside for night cooling		0	20	°C	1/64
1.5	1.5			9237	R/W		Room humidity limitation, switching differential		0	20	%	1
1.5	1.5			9238	R/W		Room humidity limitation, on time		0	720	min	1
1.5	1.5			9239	R/W		Room humidity limitation, off time		0	720	min	1
1.5	1.5			9240	R/W		Holiday mode, switch-on time ventilation		00:00	23:50	hh:mm	1/60
1.5	1.5			9241	R/W		Holiday mode, on time ventilation		0	360	min	1
1.5	1.5			9242	R/W	9907	Operating mode	0: Protection x 1: Automatic 2: Reduced 3: Comfort	0	3		1
1.5	1.5			9243	R/W	9908	Comfort setpoint		5	40	°C	1/64
1.5	1.5			9244	R/W	9909	Reduced setpoint		5	40	°C	1/64
1.5	1.5			9245	R/W		Start of summer compensation at outside temp		20	35	°C	1/64
1.5	1.5			9246	R/W		End of summer compensation at outside temp		20	35	°C	1/64
1.5	1.5			9247	R/W		Summer compensation, setpoint increase		1	10	°C	1/64
1.5	1.5			9248	R/W		Status/Command	see section "Status / command"				
1.5	1.5			9249	R/W		Release	1: Wert 682; 0 x 2: Time program heating circuit 3: Time program 5 4: Time program ventilation	1	4		1
1.5	1.5			9250	R	8945	Indoor air quality 3		0	2000	ppm	1
1.5	1.5			9251	R	8945	Status	see section "Status / command"				
1.5	1.5			9252	R	8947	Ventilation stage 3	x 0: Off 1: stage 1 2: stage 2 3: stage 3	0	3		1
1.5	1.5			9253	R	8029	State ventilation 3		0	1000		1
1.5	1.5			9254	R		State of ventilation fan 3 (K53)	x 0: Off 1: On	0	1		1
1.5	1.5			9255	R		Status	see section "Status / command"				
1.5	1.5			9256	R		State of ventilation bypass 3 (K56)	x 0: Off 1: On	0	1		1
1.5	1.5			9257	R		Status	see section "Status / command"				
1.5	1.5			9258	R		Room temp setpoint air cooling 3		4	35	°C	1/64
1.5	1.5			9259	R		Status	see section "Status / command"				
1.5	1.5			9260	R/W	7088	Maintenance interval ventilation 3		100	10000	h	1
1.5	1.5			9261	R/W	7088	Status/Command	see section "Status / command"				
1.5	1.5			9262	R/W	7089	Time since maintenance ventilation 3		0	10000	h	1
				0x2800…0x2BFF			**Domestic hot water**					
1.0	1.0	1.0	1.0	10240	R/W	1600	DHW Operating mode	0: Off x 1:On 2: Eco	0	2		1
1.0	1.0	1.0	1.0	10241	R/W	1610	Nominal setpoint		8	80	°C	1/64
1.0	1.0	1.0	1.0	10242	R/W	1612	Reduced setpoint		8	80	°C	1/64
1.0	1.0	1.0	1.0	10243	R/W	1620	Release	0: 24h/day 1: Time programs HCs x 2: Time program 4/DHW 3: Low-tariff 4: T'prog 4/DHW or low-tariff	0	4		1
1.0	1.0	1.0	1.0	10244	R/W	1640	Legionella function	x 0: Off 1: Periodically 2: Fixed weekday	0	2		1
1.0	1.0	1.0	1.0	10245	R/W	1641	Legionella funct periodically		1	7		1
1.0	1.0	1.0	1.0	10246	R/W	1642	Legionella funct weekday	x 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday 7: Sunday	1	7		1
1.0	1.0	1.0	1.0	10247	R/W	1644	Legionella funct time		00:00	23:50	h:m	10min
1.0	1.0	1.0	1.0	10248	R/W	1644	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	10249	R/W	1645	Legionella funct setpoint		55	95	°C	1/64
1.0	1.0	1.0	1.0	10250	R/W	1646	Legionella funct duration		2	360	min	1
1.0	1.0	1.0	1.0	10251	R/W	1646	Status/Command	see section "Status / command"				
1.0	1.0			10252	R/W	6745	DHW charging alarm		1	48	h	1
1.0	1.0			10253	R/W	6745	Status/Command	see section "Status / command"				
1.0	1.0	1.0		10254	R	8003	State DHW	see section "Status / command"	0	1000		1
1.5	1.5			10255	R/W	1601	Optg mode selection Eco	x 0: None 1: --- 2: DHW storage tank	0	2		1
1.5	1.5			10256	R/W	1614	DHW temperature nominal setpoint max		0	80	°C	1/64
1.5	1.5			10257	R/W	1630	DHW charging priority	x 0: Absolute 1: Shifting 2: None (parallel) 3: Shifting, absolute	0	3		1
1.5	1.5			10258	R/W	1647	Circul. pump operation during legionella func	0: Off x 1: On	0	1		1
1.5	1.5			10259	R/W	1648	Legio funct circ temp diff		0	20	°C	1/64
1.5	1.5			10260	R/W	1648	Status/Command	see section "Status / command"				
1.5	1.5			10261	R/W	1660	DHW circulating pump release	x 1: Wert 1117; 0 2: DHW release 3: Time switch program 4 4: Time switch program 5	1	4		1
1.5	1.5			10262	R/W	1661	DHW circulating pump cycling	0: Off x 1: On	0	1		1
1.5	1.5	1.0	1.0	10263	R/W	1663	DHW circulating setpoint		8	80	°C	1/64
1.5	1.5	1.0		10264	R/W	1680	Operating mode changeover DHW	0: None x 1: Off 2: On 3: Eco	0	3		1
1.5	1.5			10265	R/W	5731	DHW actuating device Q3	0: No charging request x 1: Charging pump 2: Diverting valve	0	2		1
1.5	1.5			10266	R/W	5734	Basic pos DHW div valve	0: Last request	0	2		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								x 1: Heating circuit 2: DHW				
1.5	1.5			10267	R/W	5736	Dhw dedicated	x 0: Off 1: On	0	1		1
1.5	1.5			10268	R/W	5740	Output el imm heater K6		0.1	99	kW	1/10
1.5	1.5			10269	R/W	5742	Restart lock pump Q34	x 0: Off 1: On	0	1		1
1.5	1.5			10270	R/W	5743	Cooling with DHW	x 0: Off 1: On	0	1		1
1.6	1.6			10271	R/W	1631	DHW temperature request selection	x 1: Max limitation 2: Maximum selection	1	2		1
1.6	1.6			10272	R/W	5728	DHW storage tank	0: Off x 1: On	0	1		1
			1.0	10273	R	8003	State DHW	see section "Status / command" Status codes: see controller manual	0	255		1
				0x2C00…0x2FFF		**DHW storage tank**						
1.0	1.0	1.0	1.0	11264	R	8830	DHW temp 1		0	140	°C	1/64
1.0	1.0	1.0	1.0	11265	R	8830	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	11266	R	8832	DHW temp 2		0	140	°C	1/64
1.0	1.0	1.0	1.0	11267	R	8832	Status	see section "Status / command"				
1.0	1.0			11268	R/W	8840	Hours run DHW pump		0	199'999	h	1/3600
1.0	1.0			11269				(32 Bit Data)				
1.0	1.0			11270	R/W	8841	Start counter DHW pump		0	199999		1
1.0	1.0			11271				(32 Bit Data)				
1.0	1.0			11272	R/W	8842	Hours run el DHW		0	199'999	h	1/3600
1.0	1.0			11273				(32 Bit Data)				
1.0	1.0			11274	R/W	8843	Start counter el DHW		0	199999		1
1.0	1.0			11275				(32 Bit Data)				
1.0	1.0			11276	R/W	7091	DHW stor tank since maint		0	240	Months	1
1.0	1.0			11277	R/W	7092	DHW charg temp HP min		8	80	°C	1/64
1.0	1.0			11278	R/W	7092	Status/Command	see section "Status / command"				
1.0	1.0			11279	R/W	7093	Curr DHW charg temp HP		8	80	°C	1/64
1.3	1.3	1.0	1.0	11280	R/W	5030	DHW charging time limitation		10	600	min	1
1.3	1.3	1.0	1.0	11281	R/W	5030	Status/Command	see section "Status / command"				
1.3	1.3			11282	R/W	5060	DHW electric immersion heater operating mode	x 1: Backup mode 2: Summer only 3: Always 4: Cooling mode 5: Emergency operation 6: Legionella function	1	6		1
1.3	1.3			11283	R/W	5061	DHW electric immersion heater release	1: 24h/day x 2: DHW release 3: Time switch program 4	1	3		1
1.5	1.5			11284	R/W	5007	Charging request	x 1: Wert 998; 0 2: With sensor B3 3: With sensor B31	1	3		1
1.5	1.5			11285	R/W	5008	Charging request timed		1	240	min	1
1.5	1.5			11286	R/W	5008	Status/Command	see section "Status / command"				
1.5	1.5			11287	R/W	5010	DHW charging	0: Once/day x 1: Several times/day	0	1		1
1.5	1.5			11288	R/W	5013	Charging opt energy	x 0: Off 1: Current setpoint 2: Nominal setpoint	0	2		1
1.5	1.5			11289	R/W	5016	Charging opt energy contact	x 0: Off 1: Nominal setpoint 2: Legionella funct setpoint	0	2		1
1.5	1.5	1.0	1.0	11290	R/W	5020	DHW flow setpoint boost		0	30	°C	1/64
1.5	1.5			11291	R/W	5021	Dhw transfer boost		0	30	°C	1/64
1.5	1.5			11292	R/W	5022	DHW recharging control	1: --- x 2: Full charging 3: Full charging legio 4: Full charg. first time of day 5: Full charg. first time, Legio	1	5		1
1.5	1.5			11293	R/W	5023	Setpoint reduction B31		0	20	°C	1/64
1.5	1.5	1.0	1.0	11294	R/W	5024	DHW switching differential		0	20	°C	1/64
1.5	1.5			11295	R/W	5032	Max temp DHW charging abort		8	80	°C	1/64
1.5	1.5			11296	R/W	5032	Status/Command	see section "Status / command"				
1.5	1.5			11297	R/W	5040	DHW discharging protection	0: Off 1: Always x 2: Automatically	0	2		1
1.5	1.5			11298	R/W	5041	Discharging protect sensor	1: None x 2: With sensor B31	1	2		1
1.5	1.5	1.0	1.0	11299	R/W	5050	DHW charging temperatrure max		8	95	°C	1/64
1.5	1.5			11300	R/W	5051	DHW storage tank temperature max		8	95	°C	1/64
1.5	1.5			11301	R/W	5055	DHW storage tank return cooling temperature		8	95	°C	1/64
1.5	1.5			11302	R/W	5056	DHW storage tank return cooling Producer/HC	x 0: Off 1: On	0	1		1
1.5	1.5			11303	R/W	5057	DHW storage tank return cooling Collector	x 0: Off 1: Summer 2: Always	0	2		1
1.5	1.5			11304	R/W	5062	DHW electric immersion heater control	1: Wert 511; 0 x 2: DHW sensor	1	2		1
1.5	1.5			11305	R/W	5070	DHW automatic push	x 0: Off 1: On	0	1		1
1.5	1.5			11306	R/W	5071	charging priority time push		0	120	min	1
1.5	1.5			11307	R/W	5072	DHW push	x 0: … 1: Recharging	0	1		1
1.5	1.5			11308	R/W	5085	DHW storage tank overtemperature drop	0: Off x 1: On	0	1		1
1.5	1.5			11309	R/W	5090	DHW storage tank with buffer	x 0: No 1: Yes	0	1		1
1.5	1.5			11310	R/W	5092	DHW storage tank with precontr/primary pump	x 0: No 1: Yes	0	1		1
1.5	1.5			11311	R/W	5093	DHW storage tank with solar	0: No x 1: Yes	0	1		1
1.5	1.5			11312	R/W	5101	Pump speed min DHW		0	100	%	1
1.5	1.5			11313	R/W	5102	Pump speed max DHW		0	100	%	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			11314	R/W	5103	Pump speed P-band XP DHW		1	100	°C	1/64
1.5	1.5			11315	R/W	5104	Pump speed Integral action time Tn DHW		1	650	s	1
1.5	1.5			11316	R/W	5105	Speed Tv		0	60	s	1/4
1.5	1.5			11317	R/W	5108	Starting speed charg pump		0	100	%	1
1.5	1.5			11318	R/W	5108	Status/Command	see section "Status / command"				
1.5	1.5			11319	R/W	5109	St speed interm circ pump		0	100	%	1
1.5	1.5			11320	R/W	5109	Status/Command	see section "Status / command"				
1.5	1.5			11321	R/W	5120	Mixing valve setpoint boost DHW precontr		0	50	°C	1/64
1.5	1.5			11322	R/W	5124	Actuator running time DHW precontr		30	650	s	1
1.5	1.5			11323	R/W	5125	P-band (Xp) DHW precontr		1	100	°C	1/64
1.5	1.5			11324	R/W	5126	Integral action time (Tn) DHW precontr		10	650	s	1
1.5	1.5			11325	R/W	5130	Transfer strategy	0: Off x 1: Always 2: DHW release	0	2		1
1.5	1.5			11326	R/W	5131	Comparative temperatur transfer	x 1: None 2: With sensor B31 3: With sensor B3 and B31	1	3		1
1.5	1.5			11327	R/W	5140	DHW charging circuit boost		0	10	°C	1/64
1.5	1.5			11328	R/W	5142	Delay flow set point contr		0	60	s	1
1.5	1.5			11329	R/W	5142	Status/Command	see section "Status / command"				
1.5	1.5			11330	R/W	5143	Prop band flow setp. contr		1	100	°C	1/64
1.5	1.5			11331	R/W	5144	Int act time flow setp. contr		1	650	s	1
1.5	1.5			11332	R/W	5145	Der act time flow setp. contr		0	60	s	1
1.5	1.5			11333	R/W	5146	Full charge with B36	x 0: No 1: Yes	0	1		1
1.5	1.5			11334	R/W	5147	Minimum overrun Q33		0	250	s	1
1.5	1.5			11335	R/W	5148	Min start temp diff Q33		-20	20	°C	1/64
1.5	1.5			11336	R/W	5148	Status/Command	see section "Status / command"				
1.5	1.5			11337	R/W	5156	Actuator running time, DHW intermediate circuit		30	650	s	1
1.5	1.5			11338	R/W	5157	P-band (Xp) DHW intermediate circuit		1	100	°C	1/64
1.5	1.5			11339	R/W	5158	Integral action time (Tn), DHW interm circuit		10	650	s	1
1.5	1.5			11340	R/W	5159	Use of intermediate circuit mixing valve	x 0: Always 1: Only high-temperature charging	0	1		1
1.5	1.5			11341	R/W	5160	Legionella funct mixing pump	0: Off 1: With charging x 2: With charging and duration	0	2		1
1.5	1.5			11342	R/W	5165	Restratification	x 0: Off 1: On	0	1		1
1.5	1.5			11343	R/W	5166	Restrat temp min		8	95	°C	1/64
1.5	1.5			11344	R/W	5167	Restrat temp diff min		0	40	°C	1/64
1.5	1.5			11345	R/W	5170	DHW High-temperature charging	x 0: Off 1: Own source in heating mode 2: Own source in heating/cooling mode 3: All sources in heating mode	0	3		1
1.5	1.5			11346	R/W	5171	DHW high-temperature charging setpoint		40	80	°C	1/64
1.5	1.5			11347	R/W	5171	Status/Command	see section "Status / command"				
1.5	1.5			11348	R/W	5172	DHW high-temp min charging differential flow		0.5	20	°C	1/64
1.5	1.5			11349	R/W	5172	Status/Command	see section "Status / command"				
1.5	1.5			11350	R/W	5173	DHW high-temp min charging differential hot-gas		0.5	20	°C	1/64
1.5	1.5			11351	R/W	5173	Status/Command	see section "Status / command"				
1.5	1.5			11352	R/W	5177	DHW heat pump off time minimum		0	120	min	1
1.5	1.5			11353	R/W	5178	DHW heat pump source temperature minimum		0	20	°C	1/64
1.5	1.5			11354	R/W	5179	DHW heat pump source pump	x 0: None 1: Heat circuit pump HC1 Q2 2: Heat circuit pump HC2 Q6 3: Heat circuit pump HC3 Q20 4: Condenser pump Q9 5: Cooling circuit pump CC1 Q24 6: Cooling circuit pump CC2 Q28 7: Cooling circuit pump CC3 Q29	0	7		1
1.5	1.5			11355	R/W		DHW high-temp charging, duration start kick		0	120	s	
1.5	1.5			11356	R/W		Status/Command	see section "Status / command"				
1.5	1.5	1.0	1.0	11369	R	8820	State DHW pump	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	11370	R	8820	Status	see section "Status / command"				
1.5	1.5			11371	R	8821	State electric immersion heater DHW	x 0: Off 1: On	0	1		1
1.5	1.5			11372	R	8821	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	11373	R	8825	DHW pump speed		0	100	%	1
1.5	1.5	1.0	1.0	11374	R	8825	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	11375	R	8826	DHW intermediate circuit pump speed		0	100	%	1
1.5	1.5	1.0	1.0	11376	R	8826	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	11379	R	8831	DHW temperature setpoint current		0	80	°C	1/64
1.5	1.5	1.0	1.0	11380	R	8831	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	11381	R	8835	DHW circulating temperatur		0	140	°C	1/64
1.5	1.5	1.0	1.0	11382	R	8835	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	11383	R	8836	DHW charging temperature		0	140	°C	1/64
1.5	1.5	1.0	1.0	11384	R	8836	Status	see section "Status / command"				
1.5	1.5			11385	R	8837	DHW charging setpoint		0	100	°C	1/64
1.5	1.5			11386	R	8837	Status	see section "Status / command"				
1.5	1.5	1.0		11387	R	8850	DHW precontroller temperatur actual value		0	140	°C	1/64
1.5	1.5	1.0		11388	R	8850	Status	see section "Status / command"				
1.5	1.5	1.0		11389	R	8851	DHW precontroller temperatur setpoint		0	140	°C	1/64
1.5	1.5	1.0		11390	R	8851	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	11395	R		State DHW circulating pump (Q4)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	11396	R		Status	see section "Status / command"				
1.5	1.5			11397	R		State of DHW precontr mix valve Open (Y31)	x 0: Off 1: On	0	1		1
1.5	1.5			11398	R		Status	see section "Status / command"				
1.5	1.5			11399	R		State of DHW precontr mix valve Closed (Y32)	x 0: Off 1: On	0	1		1
1.5	1.5			11400	R		Status	see section "Status / command"				
1.5	1.5			11407	R		State storage transfer pump (Q11)	x 0: Off 1: On	0	1		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			11408	R		Status	see section "Status / command"				
1.5	1.5			11409	R		State DHW stirring pump (Q35)	x 0: Off 1: On	0	1		1
1.5	1.5			11410	R		Status	see section "Status / command"				
1.5	1.5	1.0	1.0	11411	R		DHW intermediate circuit pump (Q33)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	11412	R		Status	see section "Status / command"				
1.5	1.5			11413	R		State of DHW intermed circ mix valve Open (Y37)	x 0: Off 1: On	0	1		1
1.5	1.5			11414	R		Status	see section "Status / command"				
1.5	1.5			11415	R		State of DHW interme circ mix valve Closed (Y38)	x 0: Off 1: On	0	1		1
1.5	1.5			11416	R		Status	see section "Status / command"				
1.5	1.5			11417	R		State DHW Heatpump (K33)	x 0: Off 1: On	0	1		1
1.5	1.5			11418	R		Status	see section "Status / command"				
1.6	1.6	1.0	1.0	11419	R		Operating mode changeover DHW	x 0: Inactive 1: Active	0	1		1
1.5	1.5			11420	R/W	7090	DHW storage tank time maintenance interval		1	240	Month	1
1.5	1.5			11421	R/W	7090	Status/Command	see section "Status / command"				
1.6	1.6			11422	R/W	5031	Heating time limitation		10	600	min	1
1.6	1.6			11423	R/W	5031	Status/Command	see section "Status / command"				
1.6	1.6			11424	R/W	5033	Dynamic switching differential DHW	x 0: Off 1: On	0	1		1
1.6	1.6			11425	R/W	5066	DHW el immersion heater in legionella function	x 1: --- 2: Alone	1	2		1
1.6	1.6			11426	R/W	5169	Functions Q35 with Q33	x 0: No 1: Yes	0	1		1
1.6	1.6			11427	R/W		Heating output reduction per degree		0	10		1/100
1.6	1.6			11428	R/W	5018	DHW storage tank charging priority photovoltaics	0: None x 1: Priority 1 2: Priority 2 3: Priority 3	0	3		1
				0x3000…0x33FF		**Instantaneous water heater**						
1.5	1.5			12288	R/W	5406	Min setp diff to tank temp		0	20	°C	1/64
1.5	1.5			12289	R/W	5406	Status/Command	see section "Status / command"				
1.5	1.5			12290	R/W	5407	Storage tank setpoint incr		0	20	°C	1/64
1.5	1.5			12291	R/W	5530	Pump speed min instantaneous heater		0	100	%	1
1.5	1.5			12292	R/W	5531	Pump speed max instantaneous heater		0	100	%	1
1.5	1.5			12293	R/W	5532	Pump speed P-band XP instantaneous heater		1	100	°C	1/64
1.5	1.5			12294	R/W	5533	Pump speed Tn instantaneous heater		4	650	s	1
1.5	1.5			12295	R/W	5534	Pump speed Tv instantaneous heater		0	60	s	1/4
1.5	1.5			12296	R/W	5544	Actuator running time DHW instantaneous heater		7.5	480	s	1/2
1.5	1.5			12297	R/W	5545	P-band (Xp) DHW instantaneous heater		1	200	°C	1/64
1.5	1.5			12298	R/W	5546	Integral action time (Tn) DHW instan heater		4	650	s	1
1.5	1.5			12299	R/W	5547	Derivative action time (Tv) instantaneous heater		0	30	s	1/4
1.5	1.5			12300	R	8827	Speed instantaneous heater pump		0	100	%	1
1.5	1.5			12301	R	8827	Status	see section "Status / command"				
1.5	1.5			12302	R	8852	DHW consumption temp		0	140	°C	1/64
1.5	1.5			12303	R	8852	Status	see section "Status / command"				
1.5	1.5			12304	R	8853	DHW instantaneous heater setpoint		0	140	°C	1/64
1.5	1.5			12305	R	8853	Status	see section "Status / command"				
1.5	1.5			12306	R		Status instantaneous heater pump (Q34)	x 0: Off 1: On	0	1		1
1.5	1.5			12307	R		Status	see section "Status / command"				
1.5	1.5			12308	R		Status instantaneous heater opens (Y33)	x 0: Off 1: On	0	1		1
1.5	1.5			12309	R		Status	see section "Status / command"				
1.5	1.5			12310	R		Status instantaneous heater closes (Y34)	x 0: Off 1: On	0	1		1
1.5	1.5			12311	R		Status	see section "Status / command"				
1.5	1.5			12312	R		Flowswitch	x 0: Off 1: On	0	1		1
			1.0	12313	R/W	5420	DHW flow setpoint boost		-20	60	°C	1/64
			1.0	12314	R/W	5429	DHW switching differential		0	20	°C	1/64
			1.0	12315	R	8860	DHW flow		0	30	l/min	1/10
			1.0	12316	R		Status					
				0x3400…0x37FF		**Consumer circuit 1**						
1.0	1.0			13312	R/W	1854	Request opt energy	x 0: Off 1: On	0	1		1
1.0	1.0	1.0	1.0	13313	R/W	1859	Flow temp setp cons request		8	120	°C	1/64
1.5	1.5			13314	R/W	1860	Frost prot plant consumer circuit 1 pump	0: Off x 1: On	0	1		1
1.5	1.5			13315	R/W	1874	DHW charging priority consumer circuit 1	0: No x 1: Yes	0	1		1
1.5	1.5			13316	R/W	1875	Overtemperature drop consumer circuit 1	0: Off x 1: On	0	1		1
1.5	1.5			13317	R/W	1878	Consumer circuit 1 with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			13318	R/W	1880	Consumer circuit 1 with precontr/primary pump	0: No x 1: Yes	0	1		1
1.6	1.6			13319	R/W	5750	Consumer circuit 1	0: Off x 1: Heating 2: 4-pipe system cooling 3: 2-pipe system cooling	0	3		1
1.5	1.5			13320	R	8875	Flow temp setpoint VK1		0	130	°C	1/64
1.5	1.5			13321	R	8875	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	13322	R		State CC1 pump (Q15)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	13323	R		Status	see section "Status / command"				
1.6	1.6			13324	R	8030	State consumer circuit 1	see section "Status / command" Status codes: see controller manual	0	1000		1
				0x3800…0x3BFF		**Consumer circuit 2**						
1.0	1.0			14336	R/W	1904	Request opt energy	x 0: Off 1: On	0	1		1
1.0	1.0	1.0	1.0	14337	R/W	1909	Flow temp setp cons request		8	120	°C	1/64

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			14338	R/W	1910	Frost prot plant consumer circuit 2 pump	0: Off x 1: On	0	1		1
1.5	1.5			14339	R/W	1924	DHW charging priority consumer circuit 2	0: No x 1: Yes	0	1		1
1.5	1.5			14340	R/W	1925	Overtemperature drop consumer circuit 2	0: Off x 1: On	0	1		1
1.5	1.5			14341	R/W	1928	Consumer circuit 2 with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			14342	R/W	1930	Consumer circuit 2 with precontr/primary pump	0: No x 1: Yes	0	1		1
1.6	1.6			14343	R/W	5751	Consumer circuit 2	0: Off x 1: Heating 2: 4-pipe system cooling 3: 2-pipe system cooling	0	3		1
1.5	1.5			14344	R	8885	Flow temp setpoint VK2		0	130	°C	1/64
1.5	1.5			14345	R	8885	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	14346	R		State CC2 pump (Q18)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	14347	R		Status	see section "Status / command"				
1.6	1.6			14348	R	8031	State consumer circuit 2	see section "Status / command" Status codes: see controller manual	0	1000		1
				0x3C00…0x3FFF		**Swimming pool**						
1.0	1.0	1.0	1.0	15360	R/W	1959	Flow temp setpoint		8	120	°C	1/64
1.0	1.0			15361	R/W	2055	Setpoint solar heating		8	80	°C	1/64
1.0	1.0			15362	R/W	2056	Setpoint source heating		8	35	°C	1/64
1.0	1.0	1.0	1.0	15363	R	8900	Swimming pool temp		0	140	°C	1/64
1.0	1.0	1.0	1.0	15364	R	8900	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	15365	R	8901	Swimming pool setpoint		0	80	°C	1/64
1.0	1.0	1.0	1.0	15366	R	8901	Status	see section "Status / command"				
1.0	1.0	1.0		15367	R	8011	State swimming pool	see section "Status / command" Status codes: see controller manual	0	1000		1
1.5	1.5			15368	R/W	1952	Swimming pool release source heating	0: None x 1: 24h/day 2: Time program 5	0	2		1
1.5	1.5			15369	R/W	1954	Request opt energy swimming pool	x 0: Off 1: On	0	1		1
1.5	1.5			15370	R/W	1960	Frost prot plant swimming pool pump	0: Off x 1: On	0	1		1
1.5	1.5			15371	R/W	1973	Last priority to charge	x 0: No 1: Yes	0	1		1
1.5	1.5			15372	R/W	1974	DHW charging priority swimming pool circuit	0: No x 1: Yes	0	1		1
1.5	1.5			15373	R/W	1975	Overtemperature drop swimming pool circuit	0: Off x 1: On	0	1		1
1.5	1.5			15374	R/W	1978	Swimming pool circuit with buffer	0: No x 1: Yes	0	1		1
1.5	1.5			15375	R/W	1980	Swimming pool circuit with precontr/primary pump	0: No x 1: Yes	0	1		1
1.5	1.5			15376	R/W	2057	Swimming pool SD source heating		0.5	3	°C	1/64
1.5	1.5			15377	R/W	2065	Pool charging priority solar	1: None 2: Priority 2 x 3: Priority 3	1	3		1
1.5	1.5			15378	R/W	2070	Pool temperature maximum		8	80	°C	1/64
1.5	1.5			15379	R/W	2080	Pool with solar	0: No x 1: Yes	0	1		1
1.5	1.5			15380	R	8895	Flow temp setp swimming pool		0	130	°C	1/64
1.5	1.5			15381	R	8895	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	15382	R		Swimming pool pump (Q19)	x 0: Off 1: On	0	1		
1.5	1.5	1.0	1.0	15383	R		Status	see section "Status / command"				
1.6	1.6			15384	R/W	5752	Swimming pool	0: Off x 1: On	0	1		1
1.6	1.6			15385	R/W	2066	Swimming pool charging priority photovoltaics	0: None 1: Priority 1 2: Priority 2 x 3: Priority 3	0	3		1
			1.0	15386	R	8011	State swimming pool	see section "Status / command" Status codes: see controller manual	0	255		1
				0x4000…0x43FF		**Primary contr/system pump**						
1.5	1.5			16384	R/W	2110	Flow temp min limitation precontroller		8	95	°C	1/64
1.5	1.5			16385	R/W	2111	Flow temp max limitation precontroller		8	95	°C	1/64
1.5	1.5			16386	R/W	2112	Flow temp min limitation cooling precontroller		8	20	°C	1/64
1.5	1.5			16387	R/W	2120	Frost protection for plant primary pump	0: Off x 1: On	0	1		1
1.5	1.5			16388	R/W	2130	Mixing valve setpoint boost precontroller		0	50	°C	1/64
1.5	1.5			16389	R/W	2131	Mixing valve decrease precontroller		0	20	°C	1/64
1.5	1.5			16390	R/W	2132	Actuator control mode precontroller	0: Two-position x 1: Three-position	0	1		1
1.5	1.5			16391	R/W	2133	Actuator switching differential precontroller		0	20	°C	1/64
1.5	1.5			16392	R/W	2134	Actuator running time precontroller		30	650	s	1
1.5	1.5			16393	R/W	2135	P-band (Xp)precontroller		1	100	°C	1/64
1.5	1.5			16394	R/W	2136	Integral action time (Tn) precontroller		10	650	s	1
1.5	1.5			16395	R/W	2145	DHW charging priority precontroler	0: No x 1: Yes	0	1		1
1.5	1.5			16396	R/W	2150	Precontroller/primary pump	0: Upstream of buffer x 1: Downstream from buffer	0	1		1
1.5	1.5			16397	R/W	2160	Frost protection for plant primary pump	0: Off x 1: On	0	1		1
1.5	1.5	1.0	1.0	16398	R	8930	Precontroller actual value		0	140	°C	1/64
1.5	1.5	1.0	1.0	16399	R	8930	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	16400	R	8931	Precontroller setpoint		0	140	°C	1/64
1.5	1.5	1.0	1.0	16401	R	8931	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	16402	R		Status primary pump (Q14)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	16403	R		Status	see section "Status / command"				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5	1.0	1.0	16404	R		Status precontroller mixing valve opens (Y19)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	16405	R		Status	see section "Status / command"				
1.5	1.5	1.0	1.0	16406	R		Status precontroller mixing valve closes (Y20)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	16407	R		Status	see section "Status / command"				
1.5	1.5			16408	R		Status primary pump 2 (Q44)	x 0: Off 1: On	0	1		1
1.5	1.5			16409	R		Status	see section "Status / command"				
				0x4400…0x47FF		**Buffer storage tank**						
1.5	1.5	1.0		17408	R/W	8981	Buffer setpoint		0	140	°C	1/64
1.0	1.0	1.0		17409	R	8981	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	17410	R	8980	Buffer temp 1		0	140	°C	1/64
1.0	1.0	1.0	1.0	17411	R	8980	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	17412	R	8982	Buffer temp 2		0	140	°C	1/64
1.0	1.0	1.0	1.0	17413	R	8982	Status	see section "Status / command"				
1.0	1.0			17414	R/W	8990	Hours run el buffer		0	199'999	h	1/3600
1.0	1.0			17415				(32 Bit Data)				
1.0	1.0			17416	R/W	8991	Start counter el buffer		0	199999		1
1.0	1.0			17417				(32 Bit Data)				
1.0	1.0	1.0		17418	R	8010	State buffer	see section "Status / command" Status codes: see controller manual	0	1000		1
1.3	1.3			17419	R/W	4722	Diff. Buffer/HC temp to producer release		-20	20	°C	1/64
1.5	1.5			17420	R/W	4705	Forced charging	0: Off x 1: Demand 2: Always	0	2		1
1.5	1.5			17421	R/W	4708	Buffer forced charging setpoint cooling		6	35	°C	1/64
1.5	1.5			17422	R/W	4708	Status/Command	see section "Status / command"				
1.5	1.5			17423	R/W	4709	Buffer storage forced charg setpoint heating min		20	80	°C	1/64
1.5	1.5			17424	R/W	4710	Buffer storage forced charg setpoint heating max		20	80	°C	1/64
1.5	1.5			17425	R/W	4711	Buffer storage tank forced charging time		00:00	23:50	h:m	10min
1.5	1.5			17426	R/W	4711	Status/Command	see section "Status / command"				
1.5	1.5			17427	R/W	4712	Buffer storage tank forced charging max duration		1	20	h	1
1.5	1.5			17428	R/W	4720	Automatic producer lock	0: None x 1: With B4 2: With B4 and B42/B41 3: With B42 4: With B42 and B41 5: With B4 and B71	0	5		1
1.5	1.5			17429	R/W	4721	Automatic producer lock switching differential		0	20	°C	1/64
1.5	1.5			17430	R/W	4723	Temp diff buffer/CC to source release		-20	20	°C	1/64
1.5	1.5			17431	R/W	4724	Min buffer temp while heating mode		8	95	°C	1/64
1.5	1.5			17432	R/W	4724	Status/Command	see section "Status / command"				
1.5	1.5			17433	R/W	4726	Max buffer temp while cooling mode		10	40	°C	1/64
1.5	1.5			17434	R/W	4726	Status/Command	see section "Status / command"				
1.5	1.5			17435	R/W	4728	Rel temp diff buffer/HC		-50	50	%	1
1.5	1.5			17436	R/W	4735	Setpoint reduction B42/B41		0	20	°C	1/64
1.5	1.5			17437	R/W	4739	Buffer stratification protection	x 0: Off 1: Always	0	1		1
1.5	1.5			17438	R/W	4740	Buffer stratification protect Temp diff max		0	20	°C	1/64
1.5	1.5			17439	R/W	4743	Buffer stratification protect foreseeable time		0	240	s	1
1.5	1.5			17440	R/W	4744	Buffer stratification prot integral action time		10	200	s	1
1.5	1.5			17441	R/W	4749	Min charging setpoint solar		8	95	°C	1/64
1.5	1.5			17442	R/W	4750	Buffer charging temp max		8	95	°C	1/64
1.5	1.5			17443	R/W	4751	Buffer temp max		8	95	°C	1/64
1.5	1.5			17444	R/W	4755	Return cooling temperature buffer		8	95	°C	1/64
1.5	1.5			17445	R/W	4756	Buffer return cooling DHW/HC	x 0: Off 1: On	0	1		1
1.5	1.5			17446	R/W	4757	Buffer return cooling Collector	x 0: Off 1: Summer 2: Always	0	2		1
1.5	1.5			17447	R/W	4760	Charging sensor electric immersion heater	x 1: None 2: With B42/B41	1	2		1
1.5	1.5			17448	R/W	4761	Forced charging with electric immersion heater	x 0: No 1: Yes 2: Smart grid, draw	0	2		1
1.5	1.5			17449	R/W	4783	Buffer with solar	x 0: No 1: Yes	0	1		1
1.5	1.5			17450	R/W	4830	Flow diversion temp		50	95	°C	1/64
1.5	1.5			17451	R/W	4830	Status/Command	see section "Status / command"				
1.5	1.5			17452	R/W	4831	Swi diff flow diversion		0	20	°C	1/64
1.5	1.5			17453	R/W		Delay flow diversion		0	60	s	1
1.5	1.5			17454	R/W	5870	Combi storage tank	x 0: No 1: Yes	0	1		1
1.5	1.5			17455	R/W	5872	Output el imm heater K16		0.1	99	kW	1/10
1.7	1.7			17456	R	8970	State electric immersion heater buffer	x 0: Off 1: On	0	1		1
1.7	1.7			17457	R	8970	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	17458	R		Output heat generation lock (Y4)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	17459	R		Status	see section "Status / command"				
1.5	1.5			17460	R/W	4797	Pos Y15 when TWW transfer	x 0: Off 1: On	0	1		1
1.5	1.5			17461	R/W	4797	Status/Command	see section "Status / command"				
1.6	1.6			17462	R/W	4706	Buffer storage tank charging prio photovoltaics	0: None 1: Priority 1 x 2: Priority 2 3: Priority 3	0	3		1
1.7	1.7	1.0	1.0	17463	R	8983	Buffer temp actual value middle (B42)		0	140	°C	1/64
1.7	1.7	1.0	1.0	17464	R	8983	Status	see section "Status / command"				
			1.0	17465	R	8010	State buffer	see section "Status / command" Status codes: see controller manual	0	255		1
			1.0	17466	R/W	8981	Buffer setpoint		0	140	°C	1/64
			1.0	17467	R	8981	Status/Command	see section "Status / command"				
		1.0	1.0	17468	R		Status return temp valve (Y15)					

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
		1.0	1.0	17469	R		Status					
				0x4800…0x4BFF	**Common flow**							
1.0	1.0	1.0	1.0	18432	R	8951	Common flow temp setpoint		0	140	°C	1/64
1.0	1.0	1.0	1.0	18433	R	8951	Status	see section "Status / command"				
1.0	1.0			18434	R	8957	Common flow setp refrig		0	140	°C	1/64
1.0	1.0			18435	R	8957	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	18436	R	8950	Segment flow temperature actual value		0	140	°C	1/64
1.5	1.5	1.0	1.0	18437	R	8950	Status	see section "Status / command"				
1.5	1.5			18438	R	8952	Segment return temp		0	140	°C	1/64
1.5	1.5			18439	R	8952	Status	see section "Status / command"				
1.5	1.5			18440	R	8956	Common flow temp 2		0	140	°C	1/64
1.5	1.5			18441	R	8956	Status	see section "Status / command"				
1.5	1.5			18442	R		Status heat demand (K27)	x 0: Off 1: On	0	1		1
1.5	1.5			18443	R	8956	Status	see section "Status / command"				
1.5	1.5			18444	R		Status cool demand (K28)	x 0: Off 1: On	0	1		1
1.5	1.5			18445	R	8956	Status	see section "Status / command"				
1.5	1.5			18446	R		State of diverting valve cooling, flow (Y29)	x 0: Off 1: On	0	1		1
1.5	1.5			18447	R	8956	Status	see section "Status / command"				
				0x4C00…0x4FFF	**Reserve**							
				0x5000…0x53FF	**Heat pump**							
1.0	1.0			20480	R	8410	Return temp HP		0	140	°C	1/64
1.0	1.0			20481	R	8410	Status	see section "Status / command"				
1.0	1.0			20482	R	8411	Setpoint HP		0	140	°C	1/64
1.0	1.0			20483	R	8411	Status	see section "Status / command"				
1.0	1.0			20484	R	8412	Flow temp HP		0	140	°C	1/64
1.0	1.0			20485	R	8412	Status	see section "Status / command"				
1.0	1.0			20486	R	8435	Evaporation temp		-50	180	°C	1/64
1.0	1.0			20487	R	8435	Status	see section "Status / command"				
1.0	1.0			20488	R	8436	Superheat		-10	180	°C	1/64
1.0	1.0			20489	R	8436	Status	see section "Status / command"				
1.0	1.0			20490	R	8436	Superheat setpoint		0	140	°C	1/64
1.0	1.0			20491	R	8436	Status	see section "Status / command"				
1.0	1.0			20492	R	8440	Remain sDaye 1 off time min		0	255	min	1
1.0	1.0			20493	R	8440	Status	see section "Status / command"				
1.0	1.0			20494	R	8441	Remain sDaye 2 off time min		0	255	min	1
1.0	1.0			20495	R	8441	Status	see section "Status / command"				
1.0	1.0			20496	R	8442	Remain sDaye 1 on time min		0	255	min	1
1.0	1.0			20497	R	8442	Status	see section "Status / command"				
1.0	1.0			20498	R	8443	Remain sDaye 2 on time min		0	255	min	1
1.0	1.0			20499	R	8443	Status	see section "Status / command"				
1.0	1.0			20500	R	8444	Remain limit source temp		0	65'535	h:m	1min
1.0	1.0			20501	R	8444	Status	see section "Status / command"				
1.0	1.0			20502	R	8446	Compressor sequence	x 0: 1 - 2 1: 2 - 1	0	1		1
1.0	1.0			20503	R/W	8449	Hours run refrigerant circuit		0	199'999	h	1/3600
1.0	1.0			20504				(32 Bit Data)				
1.0	1.0			20505	R/W	8450	Hours run compressor 1		0	199'999	h	1/3600
1.0	1.0			20506				(32 Bit Data)				
1.0	1.0			20507	R/W	8451	Start counter compressor 1		0	199999		1
1.0	1.0			20508				(32 Bit Data)				
1.0	1.0			20509	R/W	8452	Hours run compressor 2		0	199'999	h	1/3600
1.0	1.0			20510				(32 Bit Data)				
1.0	1.0			20511	R/W	8453	Start counter compressor 2		0	199999		1
1.0	1.0			20512				(32 Bit Data)				
1.0	1.0			20513	R/W	8454	Locking time HP		0	199'999	h	1/3600
1.0	1.0			20514				(32 Bit Data)				
1.0	1.0			20515	R/W	8455	Counter number of locks HP		0	199999		1
1.0	1.0			20516				(32 Bit Data)				
1.0	1.0			20517	R/W	8456	Hours run el flow		0	199'999	h	1/3600
1.0	1.0			20518				(32 Bit Data)				
1.0	1.0			20519	R/W	8457	Start counter el flow		0	199999		1
1.0	1.0			20520				(32 Bit Data)				
1.0	1.0			20521	R/W		Hours run el 2 flow		0	199'999	h	1/3600
1.0	1.0			20522				(32 Bit Data)				
1.0	1.0			20523	R/W		Start counter el 2 flow		0	199999		1
1.0	1.0			20524				(32 Bit Data)				
1.0	1.0			20525	R	8463	Evaporation temp EVI		-50	180	°C	1/64
1.0	1.0			20526	R	8463	Status	see section "Status / command"				
1.0	1.0			20527	R	8464	Superheat EVI		-10	180	°C	1/64
1.0	1.0			20528	R	8464	Status	see section "Status / command"				
1.0	1.0			20529	R	8464	Superheat setpoint EVI		0	140	°C	1/64
1.0	1.0			20530	R	8464	Status	see section "Status / command"				
1.0	1.0			20531	R	8477	Temp diff defrost act value		-50	50	°C	1/64
1.0	1.0			20532	R	8477	Status	see section "Status / command"				
1.0	1.0			20533	R	8478	Temp diff defrost setpoint		-50	50	°C	1/64
1.0	1.0			20534	R	8478	Status	see section "Status / command"				
1.0	1.0			20535	R	8480	Remain time defrost lock		0	255	min	1
1.0	1.0			20536	R	8480	Status	see section "Status / command"				
1.0	1.0			20537	R	8481	Remain time forced defrost		0	65'535	h:m	1min
1.0	1.0			20538	R	8481	Status	see section "Status / command"				
1.0	1.0			20539	R	8482	Remain time defrost settling		0	255	min	1
1.0	1.0			20540	R	8482	Status	see section "Status / command"				
1.0	1.0			20541	R	8485	Number defrost attempts		0	10		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			20542	R	8487	Defrost state	x 0: HP off,defr release OT off 1: Locked 2: Monitoring ice 3: Preheating for defrost 4: Defrost active 5: Dripping 6: Cooling down evaporator 7: Fault 8: Forced defrost 9: Defrost settling 10: Defrost with fan 11: Defrost with compressor 12: Forced defrost fan 13: Forced defrost compressor 14: Start delay defrost	0	14		1
1.0	1.0			20543	R/W	2909	Release below outside temp		-50	50	°C	1/64
1.0	1.0			20544	R/W	2909	Status/Command	see section "Status / command"				
1.0	1.0			20545	R/W	2910	Release above outside temp		-30	30	°C	1/64
1.0	1.0			20546	R/W	2910	Status/Command	see section "Status / command"				
1.0	1.0			20547	R/W	6711	Reset HP	x 0: No 1: Yes	0	1		1
1.0	1.0			20548	R/W	7071	HP time since maint		0	240	Months	1
1.0	1.0			20549	R/W	7073	Cur starts compr1/hrs run		0	12		1/10
1.0	1.0			20550	R/W	7075	Cur starts compr2/hrs run		0	12		1/10
1.0	1.0			20551	R/W	7077	Cur diff condens max/week		0	250		1
1.0	1.0			20552	R/W	7079	Cur diff condens min/week		0	250		1
1.0	1.0			20553	R/W	7081	Cur diff evap max/week		0	250		1
1.0	1.0			20554	R/W	7083	Cur diff evap min/week		0	250		1
1.0	1.0			20555	R/W	7152	Triggering defrost	x 0: No	0	1		1
1.0	1.0			20556	R	8006	State heat pump	see section "Status / command" Status codes: see controller manual	0	1000		1
1.3	1.3			20557	R/W	2792	Pump speed min condensator pump	Must not be bigger than parameter 2793	0	100	%	1
1.3	1.3			20558	R/W	2793	Pump speed max condensator pump	Must not be smaller than parameter 2792	0	100	%	1
1.3	1.3			20559	R/W	2801	Control condenser pump	x 1: Automatically 2: Temperature request 3: Parallel compressor operation	1	3		1
1.3	1.3			20560	R/W	2802	Prerun time condenser pump		0	600	s	1
1.3	1.3			20561	R/W	2803	Overrun time condenser pump		0	600	s	1
1.3	1.3			20562	R/W	2805	Setpoint temperature differential condenser	Must not be bigger than parameter 2804	1	20	°C	1/64
1.3	1.3			20563	R/W	2805	Status/Command	see section "Status / command"				
1.3	1.3			20564	R/W	2816	Source temperature minimum brine HP		-30	50	°C	1/64
1.3	1.3			20565	R/W	2816	Status/Command	see section "Status / command"				
1.3	1.3			20566	R/W	2819	Source temperature minimum brine HP		0	600	s	1
1.3	1.3			20567	R/W	2820	Overrun time source		0	600	s	1
1.3	1.3			20568	R/W	2823	Setpoint temperature differential evaporator		1	20	°C	1/64
1.3	1.3			20569	R/W	2840	Switching differential return temperature		1	20	°C	1/64
1.3	1.3			20570	R/W	2842	Compressor running time min		0	120	min	1
1.3	1.3			20571	R/W	2843	Compressor off time min		0	120	min	1
1.3	1.3			20572	R/W	2844	Switch-off temperature max		8	100	°C	1/64
1.3	1.3			20573	R/W	2880	Use electric flow	1: Substitute x 2: Complem operation HC 3: Complem operation DHW 4: Complem operation HC+DHW 5: End DHW charging 6: Emergency operation 7: Legionella function	1	7		1
1.3	1.3			20574	R/W	2881	Locking time electric flow		0	255	min	1
1.3	1.3			20575	R/W	2882	Release integral electric flow		0	500	°C*min	1
1.3	1.3			20576	R/W	2883	Reset integral electric flow		0	500	°C*min	1
1.3	1.3			20577	R/W	2884	Release electric flow below outside temperature		-30	30	°C	1/64
1.3	1.3			20578	R/W	2884	Status/Command	see section "Status / command"				
1.3	1.3			20579	R/W	2885	Electric flow on below flow temperature		5	20	°C	1/64
1.3	1.3			20580	R/W	2885	Status/Command	see section "Status / command"				
1.3	1.3			20581	R/W	3009	Modulation fan/source pump	0: None 1: --- inadmissible setting --- 2: Compressor output x 3: Temp diff evaporator	0	3		1
1.3	1.3			20582	R/W	3010	Speed maximal fan/source pump	Must not be smaller than parameter 3011	0	100	%	1
1.3	1.3			20583	R/W	3011	Speed minimal fan/source pump	Must not be bigger than parameter 3010	0	100	%	1
1.3	1.3			20584	R/W	3017	Locking time control		0	250	s	1
1.3	1.3			20585	R/W	3017	Status/Command	see section "Status / command"				
1.3	1.3			20586	R/W	3019	Start speed fan/sce pump		0	100	%	1
1.3	1.3			20587	R/W	3019	Status/Command	see section "Status / command"				
1.3	1.3			20588	R/W	5806	Type electric flow	0: None 1: 3-stage 2: 2-stage alternative 3: 2-stage complementary	0	3		1
1.4	1.4			20589	R/W	2855	Switch-off temp max HC		8	100	°C	1/64
1.4	1.4			20590	R/W	2855	Status/Command	see section "Status / command"				
1.5	1.5			20591	R/W	2776	Pump speed min condensator pump with DHW		0	100	%	1
1.5	1.5			20592	R/W	2776	Status/Command	see section "Status / command"				
1.5	1.5			20593	R/W	2777	Pump speed max condensator pump with DHW		0	100	%	1
1.5	1.5			20594	R/W	2777	Status/Command	see section "Status / command"				
1.5	1.5			20595	R/W	2778	Pump speed min condensator pump cooling mode		0	100	%	1
1.5	1.5			20596	R/W	2778	Status/Command	see section "Status / command"				
1.5	1.5			20597	R/W	2779	Pump speed max condensator pump cooling mode		0	100	%	1
1.5	1.5			20598	R/W	2779	Status/Command	see section "Status / command"				
1.5	1.5			20599	R/W	2785	Max condensation temp		8	100	°C	1/64
1.5	1.5			20600	R/W	2786	Max condensation temp SD		1	20	°C	1/64
1.5	1.5			20601	R/W	2787	Max condensation temp red		0	20	°C	1/64

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.6	1.6			20602	R/W	2788	Modulation condens pump DHW	0: None 1: Heat pump setpoint 2: Compressor output 3: Temp diff condensor 4: --- inadmissable setting --- 5: Flow supplementary source	0	5		1
1.5	1.5			20603	R/W	2788	Status/Command	see section "Status / command"				
1.5	1.5			20604	R/W	2789	Condenser pump with DHW	0: Off x 1: On	0	1		1
1.6	1.6			20605	R/W	2790	Condensator pump modulation	0: None x 1: Heat pump setpoint 2: Compressor output 3: Temp diff condensor 4: --- inadmissable setting --- 5: Flow supplementary source	0	5		1
1.5	1.5			20606	R/W	2794	Pump speed P-band XP condensator pump		1	100	°C	1/64
1.5	1.5			20607	R/W	2795	Pump speed Integ action time Tn condensator pump		1	650	s	1
1.5	1.5			20608	R/W	2796	Pump speed derivative action time (Tv) boiler		0	60	s	1/4
1.5	1.5			20609	R/W	2799	Pump setpoint reduction little condens output		0	20	°C	1/64
1.5	1.5			20610	R/W	2800	Frost protection plant condenser pump	x 0: Off 1: On	0	1		1
1.5	1.5			20611	R/W	2804	Max temp diff condensator		1	30	°C	1/64
1.5	1.5			20612	R/W	2804	Status/Command	see section "Status / command"				
1.5	1.5			20613	R/W	2806	Max deviation differential condenser		1	10	°C	1/64
1.5	1.5			20614	R/W	2806	Status/Command	see section "Status / command"				
1.5	1.5			20615	R/W	2807	Min temp diff cond DHW		1	10	°C	1/64
1.5	1.5			20616	R/W	2807	Status/Command	see section "Status / command"				
1.5	1.5			20617	R/W	2808	Req temp diff condens DHW		1	15	°C	1/64
1.5	1.5			20618	R/W	2808	Status/Command	see section "Status / command"				
1.5	1.5			20619	R/W	2809	Temperature frost alarm		0	10	°C	1/64
1.5	1.5			20620	R/W	2809	Status/Command	see section "Status / command"				
1.5	1.5			20621	R/W	2810	Condenser frost protection		-15	8	°C	1/64
1.5	1.5			20622	R/W	2810	Status/Command	see section "Status / command"				
1.5	1.5			20623	R/W	2811	Overrun cond frost protect		0	600	s	1
1.5	1.5			20624	R/W	2812	Operation limit outside temperature minimum air		-50	20	°C	1/64
1.5	1.5			20625	R/W	2812	Status/Command	see section "Status / command"				
1.5	1.5			20626	R/W	2813	Operation limit outside temperature maximum air		0	50	°C	1/64
1.5	1.5			20627	R/W	2813	Status/Command	see section "Status / command"				
1.5	1.5			20628	R/W	2814	Source temperature maximum		10	60	°C	1/64
1.5	1.5			20629	R/W	2814	Status/Command	see section "Status / command"				
1.5	1.5			20630	R/W	2815	Source temperature minimum water HP		-20	30	°C	1/64
1.5	1.5			20631	R/W	2815	Status/Command	see section "Status / command"				
1.5	1.5			20632	R/W	2817	Switching diff source protection		1	10	°C	1/64
1.5	1.5			20633	R/W	2818	Increase source temp min when floor curing		0	10	°C	1/64
1.5	1.5			20634	R/W	2821	Source startup time max		1	10	min	1
1.5	1.5			20635	R/W	2822	Time limit source temp min brine		1	24	h	1
1.5	1.5			20636	R/W	2824	Max deviation differential evaporator		1	10	°C	1/64
1.5	1.5			20637	R/W	2824	Status/Command	see section "Status / command"				
1.5	1.5			20638	R/W	2825	Min evaporation temp		-50	50	°C	1/64
1.5	1.5			20639	R/W	2825	Status/Command	see section "Status / command"				
1.5	1.5			20640	R/W	2826	Max evaporation temp		0	50	°C	1/64
1.5	1.5			20641	R/W	2826	Status/Command	see section "Status / command"				
1.5	1.5			20642	R/W	2827	Time limit source temp		1	360	min	1
1.5	1.5			20643	R/W	2828	Min evaporation temp water		-50	50	°C	1/64
1.5	1.5			20644	R/W	2828	Status/Command	see section "Status / command"				
1.5	1.5			20645	R/W	2829	Extended range min evaporation temp		-20	-0.5	°C	1/64
1.5	1.5			20646	R/W	2829	Status/Command	see section "Status / command"				
1.5	1.5			20647	R/W	2830	Max duration extended min evaporation temp		10	10000	h	1
1.5	1.5			20648	R/W	2832	Setpoint crankcase heater		-30	50	°C	1/64
1.5	1.5			20649	R/W	2832	Status/Command	see section "Status / command"				
1.5	1.5			20650	R/W	2835	Restart lock compressor		10	1800	s	1
1.5	1.5			20651	R/W	2836	Start swi-off temp red		-30	20	°C	1/64
1.5	1.5			20652	R/W	2837	Swi-off temp max reduced		8	100	°C	1/64
1.5	1.5			20653	R/W	2837	Status/Command	see section "Status / command"				
1.5	1.5			20654	R/W	2838	Settl'time process reversal		0	300	s	1
1.5	1.5			20655	R/W	2839	Settl'time ch'over DHW/HC		15	600	s	1
1.5	1.5			20656	R/W	2839	Status/Command	see section "Status / command"				
1.5	1.5			20657	R/W	2841	Keep compressor run time minimum	x 0: No 1: Yes	0	1		1
1.5	1.5			20658	R/W	2845	Reduction switch-off temperature max		-20	20	°C	1/64
1.5	1.5			20659	R/W	2846	Hot-gas temperature max		20	180	°C	1/64
1.5	1.5			20660	R/W	2847	Switching diff hot-gas temp max		1	40	°C	1/64
1.5	1.5			20661	R/W	2848	Reduction hot-gas temp max		0	20	°C	1/64
1.5	1.5			20662	R/W	2849	Setpoint hot-gas temperature		20	180	°C	1/64
1.5	1.5			20663	R/W	2850	Switching diff setpoint hot-gas temperature		1	40	°C	1/64
1.5	1.5			20664	R/W	2851	Contact type setpoint hot-gas temperature	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			20665	R/W	2852	Low-pressure delay on startup		0	120	s	1
1.5	1.5			20666	R/W	2853	Low-pressure delay during operation		0	120	s	1
1.5	1.5			20667	R/W	2854	Low-pressure supervision	1: Wert 678; 0 x 2: Without defrosting	1	2		1
1.5	1.5			20668	R/W	2860	Lock compressor 2 for DHW charging	x 0: Off 1: On	0	1		1
1.5	1.5			20669	R/W	2861	Release stage 2 below outside temp thresh		-30	30	°C	1/64
1.5	1.5			20670	R/W	2861	Status/Command	see section "Status / command"				
1.5	1.5			20671	R/W	2862	Locking time stage2/mod		0	40	min	1
1.5	1.5			20672	R/W	2863	Release integral stage2/mod		0	500	°C*min	1
1.5	1.5			20673	R/W	2864	Reset integral stage2/mod		0	500	°C*min	1
1.5	1.5			20674	R/W	2865	Compressor sequence changeover		10	1000	h	1
1.5	1.5			20675	R/W	2865	Status/Command	see section "Status / command"				
1.5	1.5			20676	R/W	2867	Output optimum		1	100	%	1
1.5	1.5			20677	R/W	2867	Status/Command	see section "Status / command"				
1.5	1.5			20678	R/W	2868	Output nominal heatpump		0	1000		1
1.5	1.5			20679	R/W	2869	Nominal power first stage		0	1000		1
1.5	1.5			20680	R/W	2870	Compressor modulation max		0	100	%	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			20681	R/W	2871	Compressor modulation min		0	100	%	1
1.5	1.5			20682	R/W	2873	Compressor modulation run time		0	600	s	1
1.5	1.5			20683	R/W	2874	Compressor modulation Xp		1	200	°C	1/64
1.5	1.5			20684	R/W	2875	Compressor modulation Tn		1	650	s	1
1.5	1.5			20685	R/W	2878	PWM period digital scroll		5	30	s	1
1.5	1.5			20686	R/W	2878	Status/Command	see section "Status / command"				
1.5	1.5			20687	R/W	2879	Compr mod run time close		0	600	s	1
1.5	1.5			20688	R/W	2879	Status/Command	see section "Status / command"				
1.5	1.5			20689	R/W	2886	Compensation heat deficit	0: Off x 1: On 2: Only with floor curing function	0	2		1
1.5	1.5			20690	R/W	2889	Duration error repetition		1	40	h	1
1.5	1.5			20691	R/W	2893	Number of DHW charging attempts		1	10		1
1.5	1.5			20692	R/W	2893	Status/Command	see section "Status / command"				
1.5	1.5			20693	R/W	2894	Delay mains fault		1	40	s	1
1.5	1.5			20694	R/W	2895	Delay flow switch		0	10	s	1
1.5	1.5			20695	R/W	2896	Flow switch source active	x 0: Always 1: Heating mode only	0	1		1
1.6	1.6			20696	R/W	2898	Min throughput flow switch source		1	12000	l/h	1
1.6	1.6			20697	R/W	2898	Status/Command	see section "Status / command"				
1.6	1.6			20698	R/W	2899	Min throughput flow switch consumers		1	12000	l/h	1
1.6	1.6			20699	R/W	2899	Status/Command	see section "Status / command"				
1.5	1.5			20700	R/W	2900	Refrigerant	x 0: None 1: R134A 2: R236FA 3: R290 4: R404A 5: R407A 6: R407B 7: R407C 8: R410A 9: R410B 10: R413A 11: R417A 12: R422A 13: R422D 14: R427A 15: R507A 16: R600 17: R600A 18: R744 19: R1270	0	19		1
1.5	1.5			20701	R/W	2903	Release strategy	x 1: Off 2: Energy price 3: Coefficient of performance and energy price 4: Coefficient of performance or energy price	1	4		1
1.5	1.5			20702	R/W	2904	Release of coefficient of performance		1	10		1/10
1.5	1.5			20703	R/W	2904	Status/Command	see section "Status / command"				
1.5	1.5			20704	R/W	2908	OT limit with DHW charging	0: Disregard x 1: Note	0	1		1
1.5	1.5			20705	R/W	2909	Release heat pump below outside temp thresh		-50	50	°C	1/64
1.5	1.5			20706	R/W	2909	Status/Command	see section "Status / command"				
1.5	1.5			20707	R/W	2910	Heat pump release above outside temperature		-30	30	°C	1/64
1.5	1.5			20708	R/W	2910	Status/Command	see section "Status / command"				
1.5	1.5			20709	R/W	2911	Heat pump for forced buffer charging	0: Locked x 1: Released	0	1		1
1.5	1.5			20710	R/W	2912	Full charging buffer	0: Off x 1: On	0	1		1
1.5	1.5			20711	R/W	2922	Condenser overtemp prot	0: Off x 1: Cooling down 2: Switch-on lock + cool down	0	2		1
1.5	1.5			20712	R/W	2923	Condens prot buffer sensor	x 1: Wert 641; 0 2: Buffer sensor B41 3: Buffer sensor B42	1	3		1
1.5	1.5			20713	R/W	2941	Use of diverting valve Y28	x 1: --- 2: Active and passive cooling	1	2		1
1.5	1.5			20714	R/W	2951	Defrost release below outside temperature		5	20	°C	1/64
1.5	1.5			20715	R/W	2952	Switching differential defrosting		0	15	°C	1/64
1.5	1.5			20716	R/W	2953	Temperature differential defrosting maximum		5	50	°C	1/64
1.5	1.5			20717	R/W	2954	Evaporator temperature at defrosting end		2	40	°C	1/64
1.5	1.5			20718	R/W	2955	Verdichter bei Abtauen	0: Off x 1: On	0	1		1
1.5	1.5			20719	R/W	2956	Temp differential cooling down end evaporator		-10	10	°C	1/64
1.5	1.5			20720	R/W	2956	Status/Command	see section "Status / command"				
1.5	1.5			20721	R/W	2958	Num defrost repetitions max		0	10		1
1.5	1.5			20722	R/W	2959	Defrost settling time		1	20	min	1
1.5	1.5			20723	R/W	2960	Time dT start defrost		5	1200	s	1
1.5	1.5			20724	R/W	2960	Status/Command	see section "Status / command"				
1.5	1.5			20725	R/W	2962	Duration of defrost lock		0	100	min	1
1.5	1.5			20726	R/W	2963	Duration to forced defrosting		60	600	min	1
1.5	1.5			20727	R/W	2963	Status/Command	see section "Status / command"				
1.5	1.5			20728	R/W	2964	Defrosting time maximum		1	42	min	1
1.5	1.5			20729	R/W	2965	Dripping time evaporator		0	10	min	1
1.5	1.5			20730	R/W	2966	Cooling down time evaporator		0	240	s	1
1.5	1.5			20731	R/W	2966	Status/Command	see section "Status / command"				
1.5	1.5			20732	R/W	2967	Temp thresh drip tray heat		-5	10	°C	1/64
1.5	1.5			20733	R/W	2968	Max compr output defrost		1	100	%	1
1.5	1.5			20734	R/W	2969	Defrost with DHW charging	x 1: None 2: DHW 3: Heating circuit 4: Heating circ, delay defrost	1	4		1
1.5	1.5			20735	R/W	2970	Switch-off temperature minimum heat pump		1	40	°C	1/64
1.5	1.5			20736	R/W	2971	Defrost fan above		1	20	°C	1/64
1.5	1.5			20737	R/W	2971	Status/Command	see section "Status / command"				
1.5	1.5			20738	R/W	2972	Defrost time fan min		1	42	min	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			20739	R/W	2973	Defrost time fan max		1	42	min	1
1.5	1.5			20740	R/W	2974	Temperature differential end defrost fan		0.5	10	°C	1/64
1.5	1.5			20741	R/W	2974	Status/Command	see section "Status / command"				
1.5	1.5			20742	R/W	3000	Switch-off temperature maximum cooling		20	60	°C	1/64
1.5	1.5			20743	R/W	3000	Status/Command	see section "Status / command"				
1.5	1.5			20744	R/W	3002	Source temperature minimum cooling mode		-20	30	°C	1/64
1.5	1.5			20745	R/W	3002	Status/Command	see section "Status / command"				
1.5	1.5			20746	R/W	3004	Switching diff changeover cooling passive/active		1	10	°C	1/64
1.5	1.5			20747	R/W	3007	In passive cooling mode	x 0: Condenser pump off 1: Condenser pump on	0	1		1
1.5	1.5			20748	R/W	3008	Differential condenser cooling mode		0	20	°C	1/64
1.5	1.5			20749	R/W	3012	Source off below temperature B83		10	60	°C	1/64
1.5	1.5			20750	R/W	3012	Status/Command	see section "Status / command"				
1.5	1.5			20751	R/W	3014	Switching differential		1	10	°C	1/64
1.5	1.5			20752	R/W	3015	Start speed control B83		10	60	°C	1/64
1.5	1.5			20753	R/W	3016	End speed control B83		10	60	°C	1/64
1.5	1.5			20754	R/W	3021	Speed fan/source pump Xp		1	100	°C	1/64
1.5	1.5			20755	R/W	3022	Speed fan/source pump Tn		1	650	s	1
1.5	1.5			20756	R/W	3023	Speed fan/source pump Tv		0	60	s	1/4
1.5	1.5			20757	R/W	3025	Silent mode speed max		0	100	%	1
1.5	1.5			20758	R/W	3025	Status/Command	see section "Status / command"				
1.5	1.5			20759	R/W	3026	Silent mode on		00:00	23:50	h:m	1/60
1.5	1.5			20760	R/W	3027	Silent mode off		00:00	23:50	h:m	1/60
1.5	1.5			20761	R/W	3028	Silent mode speed incr start		-50	50	°C	1/64
1.5	1.5			20762	R/W	3028	Status/Command	see section "Status / command"				
1.5	1.5			20763	R/W	3029	Silent mode speed incr end		-50	50	°C	1/64
1.5	1.5			20764	R/W	3030	Auto readj HP cond sensor	x 0: Off 1: Now 2: After pump prerun	0	2		1
1.5	1.5			20765	R/W	3031	Readj HP flow sensor		-20	20	°C	1/64
1.5	1.5			20766	R/W	3032	Readj HP return sensor		-20	20	°C	1/64
1.5	1.5			20767	R	3033	Readj status	x 0: Not readjusted 1: Manually readjusted 2: Automatically readjusted 3: Readjustment running	0	3		1
1.5	1.5			20768	R/W	3035	Readj inlet sens HP source		-20	20	°C	1/64
1.5	1.5			20769	R/W	3036	Readj outlet sens HP source		-20	20	°C	1/64
1.5	1.5			20770	R/W	3038	Readjust source interm circuit flow sensor B93		-20	20	°C	1/64
1.5	1.5			20771	R/W	3039	Readjust source interm circuit return sensor B94		-20	20	°C	1/64
1.5	1.5			20772	R/W	3042	Super heat setpoint		0	15	°C	1/64
1.5	1.5			20773	R/W	3042	Status/Command	see section "Status / command"				
1.5	1.5			20774	R/W	3043	Super heat conntroller Xp		1	200	°C	1/64
1.5	1.5			20775	R/W	3044	Super heat conntroller Tn		4	650	s	1
1.5	1.5			20776	R/W	3045	Super heat conntroller Tv		0	60	s	1/4
1.5	1.5			20777	R/W	3046	Expansion valve run time		1	1000	s	1
1.5	1.5			20778	R/W	3047	Min superheat		0.5	5	°C	1/64
1.5	1.5			20779	R/W	3047	Status/Command	see section "Status / command"				
1.5	1.5			20780	R/W	3049	Superheat setp cooling mode		0	25	°C	1/64
1.5	1.5			20781	R/W	3049	Status/Command	see section "Status / command"				
1.5	1.5			20782	R/W	3050	Superheat incr silent mode		0	10	°C	1/64
1.5	1.5			20783	R/W	3051	Delay compressor start		0	120	s	1
1.5	1.5			20784	R/W	3052	Pos expansion valve start		0	100	%	1
1.5	1.5			20785	R/W	3053	Delay superheat controller		0	30	s	1
1.5	1.5			20786	R/W	3054	Superheat setp adaption	x 0: Off 1: Heating mode 2: Cooling mode 3: Heating and cooling mode	0	3		1
1.5	1.5			20787	R/W	3056	Output control with SHC	x 0: Off 1: Heating mode 2: Cooling mode 3: Heating and cooling mode	0	3		1
1.5	1.5			20788	R/W	3058	Pump down function	x 0: Off 1: Automatic	0	1		1
1.5	1.5			20789	R/W	3059	Pump off funct press limit		0	100	bar	1/10
1.5	1.5			20790	R/W	3059	Status/Command	see section "Status / command"				
1.5	1.5			20791	R/W	3062	Superheat setpoint EVI		1	15	°C	1/64
1.5	1.5			20792	R/W	3063	EVI controller Xp		1	200	°C	1/64
1.5	1.5			20793	R/W	3064	EVI controller Tn		4	650	s	1
1.5	1.5			20794	R/W	3065	EVI controller Tv		0	60	s	1/4
1.5	1.5			20795	R/W	3066	Expansion valve EVI run time		1	1000	s	1
1.5	1.5			20796	R/W	3071	Threshold hot-gas temp EVI		20	180	°C	1/64
1.5	1.5			20797	R/W	3071	Status/Command	see section "Status / command"				
1.5	1.5			20798	R/W	3072	SD hot-gas temp EVI		1	20	°C	1/64
1.5	1.5			20799	R/W	3073	Threshold source temp EVI		-50	50	°C	1/64
1.5	1.5			20800	R/W	3073	Status/Command	see section "Status / command"				
1.5	1.5			20801	R/W	3074	SD source temp EVI		1	20	°C	1/64
1.5	1.5			20802	R/W	3077	Swi-off temp sat vapour op		8	100	°C	1/64
1.5	1.5			20803	R/W	3077	Status/Command	see section "Status / command"				
1.5	1.5			20804	R/W	3078	Thresh hot-gas temp satur		20	180	°C	1/64
1.5	1.5			20805	R/W	3078	Status/Command	see section "Status / command"				
1.5	1.5			20806	R/W	3080	Thresh source temp satur		-50	50	°C	1/64
1.5	1.5			20807	R/W	3080	Status/Command	see section "Status / command"				
1.5	1.5			20808	R/W	5800	Heat source	x 1: Wert 1045; 0 2: Water 3: Air 4: Externally brine 5: Externally water 6: Externally air	1	6		1
1.5	1.5			20809	R/W	5803	Geräteadresse externe Quelle		1	16		1
1.5	1.5			20810	R/W	5803	Status/Command	see section "Status / command"				
1.5	1.5			20811	R/W	5804	Source protection sensor brine HP	x 1: Wert 677; 0 2: Source outlet B92	1	2		1
1.5	1.5			20812	R/W	5805	Location of electric immersion heater flow	x 0: Downstream from flow sensor B21 1: Upstream of flow sensor B21 2: Flow desuperheater	0	2		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			20813	R/W	5806	Type electric flow	0: None x 1: 3-stage 2: 2-stage alternative 3: 2-stage complementary 4: --- inadmissable setting --- 5: 1-stage	0	5		1
1.5	1.5			20814	R/W	5807	Refrigeration	x 0: Off 1: Active and passive cooling 2: Active cooling 3: Passive cooling	0	3		1
1.5	1.5			20815	R/W	5808	Cooling system	1: Off x 2: 2-pipe system cooling	1	2		1
1.5	1.5			20816	R/W	5810	Temperature differential HC at -10°C		0	20	°C	1/64
1.5	1.5			20817	R/W	5811	Output el imm heater K25		0.1	99	kW	1/10
1.5	1.5			20818	R/W	5813	Output el imm heater K26		0.1	99	kW	1/10
1.5	1.5			20819	R/W	5822	Press acquisition compr H82	x 0: None 1: With input H1 2: --- inadmissable setting --- 3: --- inadmissable setting --- 4: --- inadmissable setting --- 5: With input H21 module 1 6: With input H21 module 2 7: With input H21 module 3 8: With input H22 module 1 9: With input H22 module 2 10: With input H22 module 3 11: With input H3	0	11		1
1.5	1.5			20820	R/W	5823	Press acquisition cond H83	x 0: None 1: With input H1 2: With input H2 module 1 3: With input H2 module 2 4: With input H2 module 3 5: With input H21 module 1 6: With input H21 module 2 7: With input H21 module 3 8: With input H22 module 1 9: With input H22 module 2 10: With input H22 module 3 11: With input H3	0	11		1
1.5	1.5			20821	R/W	5826	Acquisition press EVI H86	x 0: None 1: With input H1 2: --- inadmissable setting --- 3: --- inadmissable setting --- 4: --- inadmissable setting --- 5: With input H21 module 1 6: With input H21 module 2 7: With input H21 module 3 8: With input H22 module 1 9: With input H22 module 2 10: With input H22 module 3 11: With input H3	0	11		1
1.5	1.5			20822	R/W	5827	Messung Feuchte Lufteintritt H91	x 0: None 1: With input H1 2: With input H2 module 1 3: With input H2 module 2 4: With input H2 module 3 5: With input H21 module 1 6: With input H21 module 2 7: With input H21 module 3 8: With input H22 module 1 9: With input H22 module 2 10: With input H22 module 3 11: With input H3 12: With input H31 13: With input H32 14: With input H33	0	14		1
1.5	1.5			20823	R	8395	Heat output		0	999.9	kW	1/100
1.5	1.5			20824				(32 Bit Data)				
1.5	1.5			20825	R	8395	Status	see section "Status / command"				
1.5	1.5			20826	R	8396	Heat input source		0	999.9	kW	1/100
1.5	1.5			20827				(32 Bit Data)				
1.5	1.5			20828	R	8396	Status	see section "Status / command"				
1.5	1.5			20829	R	8397	Power consumption		0	999.9	kW	1/100
1.5	1.5			20830				(32 Bit Data)				
1.5	1.5			20831	R	8397	Status	see section "Status / command"				
1.5	1.5			20832	R	8398	Coefficient of performance		0	20		1/100
1.5	1.5			20833	R	8398	Status	see section "Status / command"				
1.5	1.5			20834	R	8400	State compressor 1	x 0: Off 1: On	0	1		1
1.5	1.5			20835	R	8400	Status	see section "Status / command"				
1.5	1.5			20836	R	8401	State compressor 2	x 0: Off 1: On	0	1		1
1.5	1.5			20837	R	8401	Status	see section "Status / command"				
1.5	1.5			20838	R	8402	State electric immersion heater 1 flow	x 0: Off 1: On	0	1		1
1.5	1.5			20839	R	8402	Status	see section "Status / command"				
1.5	1.5			20840	R	8403	State electric immersion heater 2 flow	x 0: Off 1: On	0	1		1
1.5	1.5			20841	R	8403	Status	see section "Status / command"				
1.5	1.5			20842	R	8404	State source pump	x 0: Off 1: On	0	1		1
1.5	1.5			20843	R	8404	Status	see section "Status / command"				
1.5	1.5			20844	R	8405	Speed source pump		0	100	%	1
1.5	1.5			20845	R	8405	Status	see section "Status / command"				
1.5	1.5			20846	R	8406	State condenser pump	x 0: Off 1: On	0	1		1
1.5	1.5			20847	R	8406	Status	see section "Status / command"				
1.5	1.5			20848	R	8407	Speed of condensor pump		0	100	%	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			20849	R	8407	Status	see section "Status / command"				
1.5	1.5			20850	R	8408	Diverting valve cool source	x 0: Off 1: On	0	1		1
1.5	1.5			20851	R	8408	Status	see section "Status / command"				
1.5	1.5			20852	R	8413	Compressor modulation		0	100	%	1/100
1.5	1.5			20853	R	8413	Status	see section "Status / command"				
1.5	1.5			20854	R	8414	Modulation electric flow		0	100	%	1
1.5	1.5			20855	R	8414	Status	see section "Status / command"				
1.5	1.5			20856	R	8415	Hot-gas temperature 1		0	180	°C	1/64
1.5	1.5			20857	R	8415	Status	see section "Status / command"				
1.5	1.5			20858	R/W	8416	Hot-gas temperature max		20	180	°C	1/64
1.5	1.5			20859	R	8417	Hot-gas temperature 2		0	180	°C	1/64
1.5	1.5			20860	R	8417	Status	see section "Status / command"				
1.5	1.5			20861	R	8420	Refrigerant temperature liquid		0	140	°C	1/64
1.5	1.5			20862	R	8420	Status	see section "Status / command"				
1.5	1.5			20863	R	8423	Condenser temp		-50	180	°C	1/64
1.5	1.5			20864	R	8423	Status	see section "Status / command"				
1.5	1.5			20865	R	8423	Condenser pressure		-100	500	bar	1/100
1.5	1.5			20866	R	8423	Status	see section "Status / command"				
1.5	1.5			20867	R	8425	Temperature differential condenser		-50	140	°C	1/64
1.5	1.5			20868	R	8425	Status	see section "Status / command"				
1.5	1.5			20869	R	8426	Temperature differential evaporator		-50	140	°C	1/64
1.5	1.5			20870	R	8426	Status	see section "Status / command"				
1.5	1.5			20871	R	8427	Source inlet temperature		-50	50	°C	1/64
1.5	1.5			20872	R	8427	Status	see section "Status / command"				
1.5	1.5			20873	R		Source switch-off threshold		-50	50	°C	1/64
1.5	1.5			20874	R		Status	see section "Status / command"				
1.5	1.5			20875	R/W	8428	Source inlet temp min		-50	350	°C	1/64
1.5	1.5			20876	R	8428	Status	see section "Status / command"				
1.5	1.5			20877	R	8429	Source outlet temperature		-50	50	°C	1/64
1.5	1.5			20878	R	8429	Status	see section "Status / command"				
1.5	1.5			20879	R		Source switch-off threshold		-50	50	°C	1/64
1.5	1.5			20880	R		Status	see section "Status / command"				
1.5	1.5			20881	R/W	8430	Source outlet temp min		-50	350	°C	1/64
1.5	1.5			20882	R	8430	Status	see section "Status / command"				
1.5	1.5			20883	R	8431	Source intermediate circuit flow temperature		-50	50	°C	1/64
1.5	1.5			20884	R	8431	Status	see section "Status / command"				
1.5	1.5			20885	R	8432	Source intermediate circuit return temperature		-50	50	°C	1/64
1.5	1.5			20886	R	8431	Status	see section "Status / command"				
1.5	1.5			20887	R	8434	Suction gas temp		-50	180	°C	1/64
1.5	1.5			20888	R	8431	Status	see section "Status / command"				
1.5	1.5			20889	R	8435	Evaporation temp		-50	180	°C	1/64
1.5	1.5			20890	R	8435	Status	see section "Status / command"				
1.5	1.5			20891	R	8435	Evaporation pressure		-100	500	bar	1/100
1.5	1.5			20892	R	8435	Status	see section "Status / command"				
1.5	1.5			20893	R	8436	Superheat		-10	180	°C	1/64
1.5	1.5			20894	R	8436	Status	see section "Status / command"				
1.5	1.5			20895	R	8436	Super heat setpoint		0	140	°C	1/64
1.5	1.5			20896	R	8436	Status	see section "Status / command"				
1.5	1.5			20897	R	8437	Expansionsventil Verdampfer		0	100	%	1
1.5	1.5			20898	R	8437	Status	see section "Status / command"				
1.5	1.5			20899	R	8438	Magnetic valve evaporation	x 0: Off 1: On	0	1		1
1.5	1.5			20900	R	8438	Status	see section "Status / command"				
1.5	1.5			20901	R/W	8454	Operating hours extended evaporation temp		0	199999	h	1/3600
1.5	1.5			20902				(32 Bit Data)				
1.5	1.5			20903	R	8458	Status Smart Grid	1: Wert 1054; 0 x 2: Draw free 3: Draw wished 4: Draw forced	1	4		1
1.5	1.5			20904	R	8458	Status	see section "Status / command"				
1.5	1.5			20905	R	8460	Heat pump throughput		0	65535	l/min	1/10
1.5	1.5			20906	R	8460	Status	see section "Status / command"				
1.5	1.5			20907	R	8461	Source throughput		0	65535	l/min	1/10
1.5	1.5			20908	R	8461	Status	see section "Status / command"				
1.5	1.5			20909	R	8462	Suction gas temp EVI		-50	180	°C	1/64
1.5	1.5			20910	R	8462	Status	see section "Status / command"				
1.5	1.5			20911	R	8465	Expansionsventil EVI		0	100	%	1
1.5	1.5			20912	R	8465	Status	see section "Status / command"				
1.5	1.5			20913	R	8466	Magnetic valve EVI	x 0: Off 1: On	0	1		1
1.5	1.5			20914	R	8466	Status	see section "Status / command"				
1.5	1.5			20915	R	8467	Magn valve injection cap	x 0: Off 1: On	0	1		1
1.5	1.5			20916	R	8467	Status	see section "Status / command"				
1.5	1.5			20917	R	8469	Speed ventilator		0	100	%	1
1.5	1.5			20918	R	8469	Status	see section "Status / command"				
1.5	1.5			20919	R	8470	State ventilator	x 0: Off 1: On	0	1		1
1.5	1.5			20920	R	8470	Status	see section "Status / command"				
1.5	1.5			20921	R	8471	State process reversing valve	x 0: Off 1: On	0	1		1
1.5	1.5			20922	R	8471	Status	see section "Status / command"				
1.5	1.5			20923	R	8475	Evaporator temperature		-50	50	°C	1/64
1.5	1.5			20924	R	8475	Status	see section "Status / command"				
1.5	1.5			20925	R	8488	Relative humidity air inlet		0	100	%	1
1.5	1.5			20926	R	8488	Status	see section "Status / command"				
1.5	1.5			20927	R/W		Modulation condens pump cooling	0: None x 1: Heat pump setpoint 2: Compressor output 3: Temp diff condensor	0	3		1
1.5	1.5			20928	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20929	R/W		Increase source temp min		0	10	°C	1/64
1.5	1.5			20930	R/W		Required temp diff evaporator cooling mode		1	20	°C	1/64
1.5	1.5			20931	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20932	R/W		Min evaporation temp cooling mode		-50	50	°C	1/64

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			20933	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20934	R/W		Max evaporation temp cooling mode		-50	50	°C	1/64
1.5	1.5			20935	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20936	R/W		Min evaporation temp switching diff		0	30	°C	1/64
1.5	1.5			20937	R/W		Min evaporation temp increase		0	20	°C	1/64
1.5	1.5			20938	R/W		Max evaporation temp reduction		0	20	°C	1/64
1.5	1.5			20939	R/W		Max evaporation temp delay		0	120	s	1
1.5	1.5			20940	R/W		Supervision soft starter	x 1: None 2: With compr operation	1	2		1
1.5	1.5			20941	R/W		Supervision low-pressure	1: None x 2: With compr operation	1	2		1
1.5	1.5			20942	R/W		Supervision high-pressure	1: None x 2: With compr operation	1	2		1
1.5	1.5			20943	R/W		Supervision overload compressor	1: None x 2: With compr operation	1	2		1
1.5	1.5			20944	R/W		Supervision 3-phase current/mains	1: None x 2: With compr operation	1	2		1
1.5	1.5			20945	R/W		Supervision overload source	1: None x 2: With compr operation	1	2		1
1.5	1.5			20946	R/W		Pressure diff min process reversal		0.1	5	bar	1/10
1.5	1.5			20947	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20948	R/W		Min compr run time prior to process reversal		0	30	s	1
1.5	1.5			20949	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20950	R/W		Delay pressure diff error process reversal		5	120	s	1
1.5	1.5			20951	R/W		Compressor modulation on process reversal		0	100	%	1
1.5	1.5			20952	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20953	R/W		Basic position process reversing valve	x 0: Last request 1: Heating 2: Cooling 3: None	0	3		1
1.5	1.5			20954	R/W		Source temp 1 for COP		-25	35	°C	1/64
1.5	1.5			20955	R/W		Source temp 2 for COP		-25	35	°C	1/64
1.5	1.5			20956	R/W		Flow temp 1 for COP		25	65	°C	1/64
1.5	1.5			20957	R/W		Flow temp 2 for COP		25	65	°C	1/64
1.6	1.6			20958	R/W		COP at source temp 1 and flow temp 1		1	10		1/50
1.6	1.6			20959	R/W		Status/Command	see section "Status / command"				
1.6	1.6			20960	R/W		COP at source temp 1 and flow temp 2		1	10		1/50
1.6	1.6			20961	R/W		Status/Command	see section "Status / command"				
1.6	1.6			20962	R/W		COP at source temp 2 and flow temp 1		1	10		1/50
1.6	1.6			20963	R/W		Status/Command	see section "Status / command"				
1.6	1.6			20964	R/W		COP at source temp 2 and flow temp 2		1	10		1/50
1.6	1.6			20965	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20966	R/W		Compressor kick release		0	100	%	1
1.5	1.5			20967	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20968	R/W		Compressor kick modulation		0	100	%	1
1.5	1.5			20969	R/W		Compressor kick interval		10	600	min	1
1.5	1.5			20970	R/W		Compressor kick duration		10	120	s	1
1.5	1.5			20971	R/W		Defrost with electrical utility lock	0: No x 1: Yes	0	1		1
1.5	1.5			20972	R/W		Defrost with fan above outside temp at 100% r.h.		1	20	°C	1/64
1.5	1.5			20973	R/W		Delay forced defrost after power up		0	240	s	1
1.5	1.5			20974	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20975	R/W		Position expansion valve when defrost		0	100	%	1
1.5	1.5			20976	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20977	R/W		Modulation fan/source pump cooling mode	x 0: None 1: Refrig temp liquid 2: Compressor output 3: Temp diff evaporator	0	3		1
1.5	1.5			20978	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20979	R/W		Output limitation with modulation source	x 0: Off 1: Heating mode 2: Cooling mode 3: Heating and cooling mode	0	3		1
1.5	1.5			20980	R/W		Max deviation suction gas temp		0.5	10	°C	1/64
1.5	1.5			20981	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20982	R/W		Superheat setpoint at source temperature 20°C		0	25	°C	1/64
1.5	1.5			20983	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20984	R/W		Superheat setpoint at source temperature 15°C		0	25	°C	1/64
1.5	1.5			20985	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20986	R/W		Superheat setpoint at source temperature 7°C		0	25	°C	1/64
1.5	1.5			20987	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20988	R/W		Superheat setpoint at source temperature 2°C		0	25	°C	1/64
1.5	1.5			20989	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20990	R/W		Superheat setpoint at source temperature -7°C		0	25	°C	1/64
1.5	1.5			20991	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20992	R/W		Superheat setpoint at source temperature -15°C		0	25	°C	1/64
1.5	1.5			20993	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20994	R/W		Superheat setpoint at source temperature -25°C		0	25	°C	1/64
1.5	1.5			20995	R/W		Status/Command	see section "Status / command"				
1.5	1.5			20996	R/W		Output control with SHC Xp		1	200	°C	1/64
1.5	1.5			20997	R/W		Output control with SHC Tn		1	650	s	1
1.5	1.5			20998	R/W		Wait time up to red superheat setp adapt		0	600	s	1
1.5	1.5			20999	R/W		Min deviation superheat setp adapt		0.1	5	°C	1/64
1.5	1.5			21000	R/W		Max deviation superheat setp adapt		0.1	5	°C	1/64
1.5	1.5			21001	R/W		Critical deviation superheat setp adapt		0.1	5	°C	1/64
1.5	1.5			21002	R/W		Adaption step superheat setp		0.1	5	°C	1/64
1.5	1.5			21003	R/W		Adaption lock upon compressor start		0	30	min	1
1.5	1.5			21004	R/W		Adaption lock upon change of superheat setp		0	600	s	1
1.5	1.5			21005	R/W		Adaption lock upon increase of superheat setp		0	30	min	1
1.5	1.5			21006	R/W		Delay expansion valve evaporator error		0	255	s	1
1.5	1.5			21007	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21008	R/W		Max increase superheat setpoint adapt		0	10	°C	1/64
1.5	1.5			21009	R/W		Output limitation with SHC	x 0: Off 1: Heating mode 2: Cooling mode 3: Heating and cooling mode	0	3		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			21010	R/W		Max deviation superheat		0.5	10	°C	1/64
1.5	1.5			21011	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21012	R		State of crankcase heater (K40)	x 0: Off 1: On	0	1		1
1.5	1.5			21013	R		Status	see section "Status / command"				
1.5	1.5			21014	R		Drip tray heater K41	x 0: Off 1: On	0	1		1
1.5	1.5			21015	R		Status	see section "Status / command"				
1.5	1.5			21016	R		State of source interm circuit pump (Q81)	x 0: Off 1: On	0	1		1
1.5	1.5			21017	R		Status	see section "Status / command"				
1.5	1.5			21018	R		State of source interm circuit div valve (Y81)	x 0: Off 1: On	0	1		1
1.5	1.5			21019	R		Status	see section "Status / command"				
1.5	1.5			21020	R		State of diverting valve cooling condenser (Y27)	x 0: Off 1: On	0	1		1
1.5	1.5			21021	R		Status	see section "Status / command"				
1.5	1.5			21022	R		State of condenser reversing valve (Y91)	x 0: Off 1: On	0	1		1
1.5	1.5			21023	R		Status	see section "Status / command"				
1.5	1.5			21024	R		State status information heating (K42)	x 0: Off 1: On	0	1		1
1.5	1.5			21025	R		Status	see section "Status / command"				
1.5	1.5			21026	R		State status information cooling (K43)	x 0: Off 1: On	0	1		1
1.5	1.5			21027	R		Status	see section "Status / command"				
1.5	1.5			21028	R		State status information DHW (K44)	x 0: Off 1: On	0	1		1
1.5	1.5			21029	R		Status	see section "Status / command"				
1.5	1.5			21030	R		State status information generation (K45)	x 0: Off 1: On	0	1		1
1.5	1.5			21031	R		Status	see section "Status / command"				
1.5	1.5			21032	R		State fault information generation (K46)	x 0: Off 1: On	0	1		1
1.5	1.5			21033	R		Status	see section "Status / command"				
1.5	1.5			21034	R/W		Repetition Error 107:Hot-gas compressor 1		0	50		1
1.5	1.5			21035	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21036	R/W		Repetition Error 108:Hot-gas compressor 2		0	50		1
1.5	1.5			21037	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21038	R/W		Repetition Error 134:Disturbance heat pump		0	50		1
1.5	1.5			21039	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21040	R/W		Repetition Error 204:Fan fault (overload)		0	50		1
1.5	1.5			21041	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21042	R/W		Repetition Error 222:High-pressure HP		0	50		1
1.5	1.5			21043	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21044	R/W		Repetition Error 225:Low-pressure HP		0	50		1
1.5	1.5			21045	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21046	R/W		Repetition Error 226:Compressor 1 overload		0	50		1
1.5	1.5			21047	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21048	R/W		Repetition Error 227:Compressor 2 overload		0	50		1
1.5	1.5			21049	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21050	R/W		Repetition Error 228:Flow switch heat source		0	50		1
1.5	1.5			21051	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21052	R/W		Repetition Error 229:Pressure switch heat source		0	50		1
1.5	1.5			21053	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21054	R/W		Repetition Error 230:Source pump overload		0	50		1
1.5	1.5			21055	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21056	R/W		Rep Error 355/385:Three-phase current/undervolt		0	50		1
1.5	1.5			21057	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21058	R/W		Repetition Error 356:Flow switch consumers		0	50		1
1.5	1.5			21059	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21060	R/W		Repetition Error 358/483: Soft starter		0	50		1
1.5	1.5			21061	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21062	R/W		Repetition Error 491:Max evaporation temp		0	50		1
1.5	1.5			21063	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21064	R/W		Repetition error 504:Press diff process reversal		0	50		1
1.5	1.5			21065	R/W		Status/Command	see section "Status / command"				
1.5	1.5			21066	R/W	7070	HP time maintenance interval		1	240	Month	1
1.5	1.5			21067	R/W	7070	Status/Command	see section "Status / command"				
1.5	1.5			21068	R/W	7072	Max starts compressor 1/hour run		0.1	12		1/10
1.5	1.5			21069	R/W	7072	Status/Command	see section "Status / command"				
1.5	1.5			21070	R/W	7074	Max starts compressor 2/hour run		0.1	12		1/10
1.5	1.5			21071	R/W	7074	Status/Command	see section "Status / command"				
1.5	1.5			21072	R/W	7076	Max differentials condenser max/week		1	250		1
1.5	1.5			21073	R/W	7076	Status/Command	see section "Status / command"				
1.5	1.5			21074	R/W	7078	Max differentials condenser min/week		1	250		1
1.5	1.5			21075	R/W	7078	Status/Command	see section "Status / command"				
1.5	1.5			21076	R/W	7080	Max differentials evaporator max/week		1	250		1
1.5	1.5			21077	R/W	7080	Status/Command	see section "Status / command"				
1.5	1.5			21078	R/W	7082	Max differentials evaporator min/week		1	250		1
1.5	1.5			21079	R/W	7082	Status/Command	see section "Status / command"				
1.5	1.5			21080	R/W	7153	Pumping off refrigerant	x 0: Off 1: On	0	1		1
1.5	1.5			21081	R/W	7202	Commissioning heat pump	x 0: Off 1: Heating mode 2: Cooling mode	0	2		1
1.5	1.5			21082	R/W	7207	Output selection heat pump modulating		0	100	%	1
1.5	1.5			21083	R/W	7212	Output selection heat pump multistage	x 0: Off 1: Compressor 1 2: Compressor 2 3: Compressor 1+2	0	3		1
1.5	1.5			21084	R/W	7223	Disable heat pump	x 0: Inactive 1: Active	0	1		1
1.5	1.5			21085	R/W	7226	Monitoring heat pump	x 0: On	0	1		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								1: Critical only				
1.5	1.5			21086	R/W		User Reset	x 0: No 1: Yes	0	1		1
1.5	1.5			21087	R/W	2956	dT cooling down end evapor		-10	10	°C	1/64
1.5	1.5			21088	R/W	2956	Status/Command	see section "Status / command"				
1.5	1.5			21089	R		Emerson RCC Controler, Operating mode	x 0: Off 1: Cooling 2: Heating 3: Standby 4: Manual	0	4		1
1.5	1.5			21090	R		Amitime HP Controler, Operating mode	x 0: Standby 1: Cooling 2: Heating 3: Hot water 4: Defrost 5: Base function mode 256: Test standby 257: Test cooling 258: Test heating	0	4		1
1.6	1.6			21091	R/W		Supervision pressure switch source	1: None 2: With source operation x 3: According to heat source	1	3		1
1.6	1.6			21092	R/W		Supervision pressure switch source intermed circ	x 1: None 2: With source operation	1	2		1
1.6	1.6			21093	R/W		El compr. power at source temp 1 and flow temp 1		0	600		1/100
1.6	1.6			21094	R/W		El compr. power at source temp 1 and flow temp 2		0	600		1/100
1.6	1.6			21095	R/W		El compr. power at source temp 2 and flow temp 1		0	600		1/100
1.6	1.6			21096	R/W		El compr. power at source temp 2 and flow temp 2		0	600		1/100
1.6	1.6			21097	R/W		OT limit compressor power		-25	35	°C	1/64
1.6	1.6			21098	R/W		Status/Command	see section "Status / command"				
1.6	1.6			21099	R/W		Minimum compressor power below OT limit		0	100	%	1
1.6	1.6			21100	R/W		Minimum compressor power over OT limit		0	100	%	1
1.6	1.6			21101	R/W		Source protection with substitute sensor	x 0: No 1: Yes	0	1		1
1.6	1.6			21102	R/W		Supervision external superheat controller	x 1: None 2: With compr operation	1	2		1
1.6	1.6			21103	R/W		Repetition error 529/530: Superheat controller		0	50		1
1.6	1.6			21104	R/W		Status/Command	see section "Status / command"				
				0x5400…0x57FF		**Heat pump block 2**						
				0x5800…0x5BFF		**Boiler (RVS)**						
		1.0		22528	R	8300	State burner stage 1 (T2)	x 0: Off 1: On	0	1		1
		1.0		22529	R	8300	Status	see section "Status / command"				
		1.0		22530	R	8301	State burner stage 2 (T8)	x 0: Off 1: On	0	1		1
		1.0		22531	R	8301	Status	see section "Status / command"				
		1.0		22532	R/W	8332	Burner hours run stage 2		0	65535	h	1
		1.0		22533	R/W	8333	Number of burner starts stage 2		0	2.147E+09		1
				22534	R/W							
		1.0		22535	R	8312	Boiler switch point		0	140	°C	1/64
		1.0		22536	R	8312	Status	see section "Status / command"				
				0x5C00…0x5FFF		**Boiler (RVS) block 2**						
				0x6000…0x63FF		**Boiler (RVS und LMS)**						
		1.0	1.0	24576	R/W	2214	Setpoint manual control		8	120	°C	1/64
		1.0	1.0	24577	R/W	2317	Temp differential nominal		0	80	°C	1/64
			1.0	24578	R/W	2317	Status/Command					
		1.0	1.0	24579	R/W	2322	Boiler pump speed min		0	100	%	1
		1.0	1.0	24580	R/W	2323	Boiler pump speed max		0	100	%	1
		1.0	1.0	24581	R/W	2330	Output nominal		0	2000	kW	1/10
		1.0	1.0	24582	R/W	2331	Output basic stage		0	2000	kW	1/10
			1.0	24583	R/W	7040	Burner hours run maintenance interval		100	10000	h	1
			1.0	24584	R/W	7040	Status/Command		100	10000	h	1
			1.0	24585	R/W	7041	Burner hours run since maintenance		0	10000	h	1
			1.0	24586	R/W	7042	Burner starts maintenance interval		100	65500		1
			1.0	24587	R/W	7042	Status/Command		100	65500		1
			1.0	24588	R/W	7043	Burner starts since maintenance		0	65535		1
			1.0	24589	R/W	7050	Fan speed treshold for service message		0	12500	U/min	1
			1.0	24590	R/W	7050	Status/Command		0	12500	U/min	1
			1.0	24591	R/W	7051	Ionisation current service message		0	1		1
		1.0	1.0	24592	R	8005	State boiler		0	255		1
			1.0	24593	R	8009	State burners		0	255		1
		1.0	1.0	24594	R	8304	Boiler pump Q1		0	1		1
		1.0	1.0	24595	R	8304	Status					
		1.0	1.0	24596	R	8308	Boiler pump speed		0	100	%	1
		1.0	1.0	24597	R	8308	Status					
			1.0	24598	R	8309	Bypass pump speed		0	100	%	1
			1.0	24599	R	8309	Status					
		1.0	1.0	24600	R	8310	Boiler temp actual value		0	140	°C	1/64
		1.0	1.0	24601	R	8310	Status					
			1.0	24602	R	8310	Boiler temp		0	140	°C	1/64
			1.0	24603	R	8310	Status					
		1.0	1.0	24604	R	8311	Boiler setpoint		0	140	°C	1/64
		1.0	1.0	24605	R	8311	Status					
			1.0	24606	R	8311	Boiler temp setpoint		0	140	°C	1/64
			1.0	24607	R	8311	Status					
		1.0	1.0	24608	R	8314	Boiler return temp		0	140	°C	1/64
		1.0	1.0	24609	R	8314	Status					
		1.0	1.0	24610	R	8316	Flue gas temp		0	350	°C	1/64
		1.0	1.0	24611	R	8316	Status					
			1.0	24612	R	8323	Fan speed		0	12500	U/min	1
			1.0	24613	R	8324	Set point fan		0	12500	U/min	1
			1.0	24614	R	8325	Current fan control		0	100	%	1/100
			1.0	24615	R	8325	Status					

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
		1.0	1.0	24616	R	8326	Relative output		0	100	%	1
		1.0	1.0	24617	R	8326	Status					
			1.0	24618	R	8329	Ionization current		0	100	µA	1/100
			1.0	24619	R	8329	Status					
		1.0	1.0	24620	R/W	8330	Hours run 1st stage		0	65535	h	1
		1.0	1.0	24621	R/W	8331	Number of burner starts stage 1		0	2.147E+09		1
		1.0	1.0	24622	R/W			(32 Bit Data)				
			1.0	24623	R/W	8338	Hours run heating mode		00:00:00	8333:07:00	h	1/3600
			1.0	24624	R/W			(32 Bit Data)				
			1.0	24625	R/W	8339	Hours run DHW heating		00:00:00	8333:07:00	h	1/3600
			1.0	24626	R/W			(32 Bit Data)				
			1.0	24627	R	8366	Boiler flow		0	3276.7	l/min	1/10
			1.0	24628	R	8366	Status					
			1.0	24629	R/W	8378	Total gas energy for heating		0	2.147E+09	kWh	1
			1.0	24630	R/W			(32 Bit Data)				
			1.0	24631	R/W	8379	Total gas energy for domestic hot water		0	2.147E+09	kWh	1
			1.0	24632	R/W			(32 Bit Data)				
			1.0	24633	R	8380	Total gas energy for heating and DHW		0	2.147E+09	kWh	1
			1.0	24634	R			(32 Bit Data)				
			1.0	24635	R/W	8381	Gas energy for heating		0	2.147E+09	kWh	1
			1.0	24636	R/W			(32 Bit Data)				
			1.0	24637	R/W	8382	Gas energy for domestic hot water		0	2.147E+09	kWh	1
			1.0	24638	R/W			(32 Bit Data)				
			1.0	24639	R	8383	Gas energy for heating and domestic hot water		0	2.147E+09	kWh	1
			1.0	24640	R			(32 Bit Data)				
			1.0	24641	R	8390	Current phase number		1	21		1
			1.0	24642	R		Status boiler bypass pump (Q12)					
			1.0	24643	R		Status					
		1.0	1.0	24644	R		Producer locking via contact H					
			1.1	24645	R/W	2454			0	20	°C	1/64
			1.1	24646	R/W	2455			0	20	°C	1/64
			1.1	24647	R/W	2456			0	20	°C	1/64
			1.1	24648	R/W	2457			0	240	min	1
				24649								
				24650								
				24651								
				24652								
				24653								
				24654								
				24655								
				24656								
				24657								
				24658								
				24659								
				24660								
				24661								
				24662								
				24663								
				24664								
				0x6400…0x67FF		**Boiler (LMS) block 2**						
				0x6800…0x6BFF		**Sitherm Pro**						
			1.0	26624	R	2701	Ion current setpoint		0	150	µA	1/100
			1.0	26625	R	2703	Learning value gas quality		-32768	32767		1
			1.0	26626	R	2705	Control value		-32768	32767		1
			1.0	26627	R/W	2740	Triggering drift test	x 0: No 1: All points 2: All due points 3: Point 1 4: Point 2 5: Point 3 6: Point 4 7: Point 5 8: Point 6 9: Point 7	0	9		1
			1.0	26628	R/W	2741	ADA result		1	7		1
			1.0	26629	R	2741	ADA result		1	7		1
			1.0	26630	R	2742	Drift above LF filter value		1	7		1
			1.0	26631	R	2743	ADA correction		1	7		1
			1.0	26632	R	2744	ADA point No		1	7		1
			1.0	26633	R							
			1.0	26634	R	2745	ADA point No		0	150	µA	1/100
			1.0	26635	R/W	2749	Reset drift test		0	2		1
			1.0	26636	R	2750	Pending drift tests		0	22		1
			1.0	26637	R		Sitherm Pro runtime in RAM					
			1.0	26638	R							
				0x7400…0x77FF		**Energy meter**						
1.0	1.0			29696	R	3110	Heat delivered		0	9999999	kWh	1
1.0	1.0			29697				(32 Bit Data)				
1.0	1.0			29698	R	3110	Status/Command	see section "Status / command"				
1.0	1.0			29699	R	3113	Energy brought in		0	3500000	kWh	1
1.0	1.0			29700				(32 Bit Data)				
1.0	1.0			29701	R	3113	Status/Command	see section "Status / command"				
1.0	1.0			29702	R	3116	Performance factor		0	10		1/100
1.0	1.0			29703	R	3116	Status	see section "Status / command"				
1.0	1.0			29704	R	3120	Yearly perf factor 1		0	10		1/100
1.0	1.0			29705	R	3120	Status	see section "Status / command"				
1.0	1.0			29706	R	3120	Fixed day 1	Year	100	199	Year	1
1.0	1.0			29707	R	3120		Month	1	12	Month	1
1.0	1.0			29708	R	3120		Day	1	31	Day	1
1.0	1.0			29709	R	3120	Status	see section "Status / command"				
1.0	1.0			29710	R	3121	Heat delivered heating 1		0	9999999	kWh	1
1.0	1.0			29711				(32 Bit Data)				
1.0	1.0			29712	R	3121	Status	see section "Status / command"				
1.0	1.0			29713	R	3122	Heat delivered DHW 1		0	9999999	kWh	1
1.0	1.0			29714				(32 Bit Data)				
1.0	1.0			29715	R	3122	Status	see section "Status / command"				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			29716	R	3124	Energy brought in heating 1		0	3500000	kWh	1
1.0	1.0			29717				(32 Bit Data)				
1.0	1.0			29718	R	3124	Status	see section "Status / command"				
1.0	1.0			29719	R	3125	Energy brought in DHW 1		0	3500000	kWh	1
1.0	1.0			29720				(32 Bit Data)				
1.0	1.0			29721	R	3125	Status	see section "Status / command"				
1.0	1.0			29722	R	3127	Yearly perf factor 2		0	10	h:m	1/100
1.0	1.0			29723	R	3127	Status	see section "Status / command"				
1.0	1.0			29724	R	3127	Fixed day 2	Year	100	199	Year	1
1.0	1.0			29725	R	3127		Month	1	12	Month	1
1.0	1.0			29726	R	3127		Day	1	31	Day	1
1.0	1.0			29727	R	3127	Status	see section "Status / command"				
1.0	1.0			29728	R	3128	Heat delivered heating 2		0	9999999	kWh	1
1.0	1.0			29729				(32 Bit Data)				
1.0	1.0			29730	R	3128	Status	see section "Status / command"				
1.0	1.0			29731	R	3129	Heat delivered DHW 2		0	9999999	kWh	1
1.0	1.0			29732				(32 Bit Data)				
1.0	1.0			29733	R	3129	Status	see section "Status / command"				
1.0	1.0			29734	R	3131	Energy brought in heating 2		0	3500000	kWh	1
1.0	1.0			29735				(32 Bit Data)				
1.0	1.0			29736	R	3131	Status	see section "Status / command"				
1.0	1.0			29737	R	3132	Energy brought in DHW 2		0	3500000	kWh	1
1.0	1.0			29738				(32 Bit Data)				
1.0	1.0			29739	R	3132	Status	see section "Status / command"				
1.0	1.0			29740	R	3134	Yearly perf factor 3		0	10	h:m	1/100
1.0	1.0			29741	R	3134	Status	see section "Status / command"				
1.0	1.0			29742	R	3134	Fixed day 3	Year	100	199	Year	1
1.0	1.0			29743	R	3134		Month	1	12	Month	1
1.0	1.0			29744	R	3134		Day	1	31	Day	1
1.0	1.0			29745	R	3134	Status	see section "Status / command"				
1.0	1.0			29746	R	3135	Heat delivered heating 3		0	9999999	kWh	1
1.0	1.0			29747				(32 Bit Data)				
1.0	1.0			29748	R	3135	Status	see section "Status / command"				
1.0	1.0			29749	R	3136	Heat delivered DHW 3		0	9999999	kWh	1
1.0	1.0			29750								
1.0	1.0			29751	R	3136	Status	see section "Status / command"				
1.0	1.0			29752	R	3138	Energy brought in heating 3		0	3500000	kWh	1
1.0	1.0			29753				(32 Bit Data)				
1.0	1.0			29754	R	3138	Status	see section "Status / command"				
1.0	1.0			29755	R	3139	Energy brought in DHW 3		0	3500000	kWh	1
1.0	1.0			29756				(32 Bit Data)				
1.0	1.0			29757	R	3139	Status	see section "Status / command"				
1.0	1.0			29758	R	3141	Yearly perf factor 4		0	10	h:m	1/100
1.0	1.0			29759	R	3141	Status	see section "Status / command"				
1.0	1.0			29760	R	3141	Fixed day 4	Year	100	199	Year	1
1.0	1.0			29761	R	3141		Month	1	12	Month	1
1.0	1.0			29762	R	3141		Day	1	31	Day	1
1.0	1.0			29763	R	3141	Status	see section "Status / command"				
1.0	1.0			29764	R	3142	Heat delivered heating 4		0	9999999	kWh	1
1.0	1.0			29765				(32 Bit Data)				
1.0	1.0			29766	R	3142	Status	see section "Status / command"				
1.0	1.0			29767	R	3143	Heat delivered DHW 4		0	9999999	kWh	1
1.0	1.0			29768				(32 Bit Data)				
1.0	1.0			29769	R	3143	Status	see section "Status / command"				
1.0	1.0			29770	R	3145	Energy brought in heating 4		0	3500000	kWh	1
1.0	1.0			29771				(32 Bit Data)				
1.0	1.0			29772	R	3145	Status	see section "Status / command"				
1.0	1.0			29773	R	3146	Energy brought in DHW 4		0	3500000	kWh	1
1.0	1.0			29774				(32 Bit Data)				
1.0	1.0			29775	R	3146	Status	see section "Status / command"				
1.0	1.0			29776	R	3148	Yearly perf factor 5		0	10		1/100
1.0	1.0			29777	R	3148	Status	see section "Status / command"				
1.0	1.0			29778	R	3148	Fixed day 5	Year	100	199	Year	1
1.0	1.0			29779	R	3148		Month	1	12	Month	1
1.0	1.0			29780	R	3148		Day	1	31	Day	1
1.0	1.0			29781	R	3148	Status	see section "Status / command"				
1.0	1.0			29782	R	3149	Heat delivered heating 5		0	9999999	kWh	1
1.0	1.0			29783				(32 Bit Data)				
1.0	1.0			29784	R	3149	Status	see section "Status / command"				
1.0	1.0			29785	R	3150	Heat delivered DHW 5		0	9999999	kWh	1
1.0	1.0			29786				(32 Bit Data)				
1.0	1.0			29787	R	3150	Status	see section "Status / command"				
1.0	1.0			29788	R	3152	Energy brought in heating 5		0	3500000	kWh	1
1.0	1.0			29789				(32 Bit Data)				
1.0	1.0			29790	R	3152	Status	see section "Status / command"				
1.0	1.0			29791	R	3153	Energy brought in DHW 5		0	3500000	kWh	1
1.0	1.0			29792				(32 Bit Data)				
1.0	1.0			29793	R	3153	Status	see section "Status / command"				
1.0	1.0			29794	R	3155	Yearly perf factor 6		0	10		1/100
1.0	1.0			29795	R	3155	Status	see section "Status / command"				
1.0	1.0			29796	R	3155	Fixed day 6	Year	100	199	Year	1
1.0	1.0			29797	R	3155		Month	1	12	Month	1
1.0	1.0			29798	R	3155		Day	1	31	Day	1
1.0	1.0			29799	R	3155	Status	see section "Status / command"				
1.0	1.0			29800	R	3156	Heat delivered heating 6		0	9999999	kWh	1
1.0	1.0			29801				(32 Bit Data)				
1.0	1.0			29802	R	3156	Status	see section "Status / command"				
1.0	1.0			29803	R	3157	Heat delivered DHW 6		0	9999999	kWh	1
1.0	1.0			29804				(32 Bit Data)				
1.0	1.0			29805	R	3157	Status	see section "Status / command"				
1.0	1.0			29806	R	3159	Energy brought in heating 6		0	3500000	kWh	1
1.0	1.0			29807				(32 Bit Data)				
1.0	1.0			29808	R	3159	Status	see section "Status / command"				
1.0	1.0			29809	R	3160	Energy brought in DHW 6		0	3500000	kWh	1
1.0	1.0			29810				(32 Bit Data)				
1.0	1.0			29811	R	3160	Status	see section "Status / command"				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			29812	R	3162	Yearly perf factor 7		0	10	h:m	1/100
1.0	1.0			29813	R	3162	Status	see section "Status / command"				
1.0	1.0			29814	R	3162	Fixed day 7	Year	100	199	Year	1
1.0	1.0			29815	R	3162		Month	1	12	Month	1
1.0	1.0			29816	R	3162		Day	1	31	Day	1
1.0	1.0			29817	R	3162	Status	see section "Status / command"				
1.0	1.0			29818	R	3163	Heat delivered heating 7		0	9999999	kWh	1
1.0	1.0			29819				(32 Bit Data)				
1.0	1.0			29820	R	3162	Status	see section "Status / command"				
1.0	1.0			29821	R	3164	Heat delivered DHW 7		0	9999999	kWh	1
1.0	1.0			29822				(32 Bit Data)				
1.0	1.0			29823	R	3164	Status	see section "Status / command"				
1.0	1.0			29824	R	3166	Energy brought in heating 7		0	3500000	kWh	1
1.0	1.0			29825				(32 Bit Data)				
1.0	1.0			29826	R	3166	Status	see section "Status / command"				
1.0	1.0			29827	R	3167	Energy brought in DHW 7		0	3500000	kWh	1
1.0	1.0			29828				(32 Bit Data)				
1.0	1.0			29829	R	3167	Status	see section "Status / command"				
1.0	1.0			29830	R	3169	Yearly perf factor 8		0	10	h:m	1/100
1.0	1.0			29831	R	3169	Status	see section "Status / command"				
1.0	1.0			29832	R	3169	Fixed day 8	Year	100	199	Year	1
1.0	1.0			29833	R	3169		Month	1	12	Month	1
1.0	1.0			29834	R	3169		Day	1	31	Day	1
1.0	1.0			29835	R	3169	Status	see section "Status / command"				
1.0	1.0			29836	R	3170	Heat delivered heating 8		0	9999999	kWh	1
1.0	1.0			29837				(32 Bit Data)				
1.0	1.0			29838	R	3170	Status	see section "Status / command"				
1.0	1.0			29839	R	3171	Heat delivered DHW 8		0	9999999	kWh	1
1.0	1.0			29840				(32 Bit Data)				
1.0	1.0			29841	R	3171	Status	see section "Status / command"				
1.0	1.0			29842	R	3173	Energy brought in heating 8		0	3500000	kWh	1
1.0	1.0			29843				(32 Bit Data)				
1.0	1.0			29844	R	3173	Status	see section "Status / command"				
1.0	1.0			29845	R	3174	Energy brought in DHW 8		0	3500000	kWh	1
1.0	1.0			29846				(32 Bit Data)				
1.0	1.0			29847	R	3174	Status	see section "Status / command"				
1.0	1.0			29848	R	3176	Yearly perf factor 9		0	10	h:m	1/100
1.0	1.0			29849	R	3176	Status	see section "Status / command"				
1.0	1.0			29850	R	3176	Fixed day 9	Year	100	199	Year	1
1.0	1.0			29851	R	3176		Month	1	12	Month	1
1.0	1.0			29852	R	3176		Day	1	31	Day	1
1.0	1.0			29853	R	3176	Status	see section "Status / command"				
1.0	1.0			29854	R	3177	Heat delivered heating 9		0	9999999	kWh	1
1.0	1.0			29855				(32 Bit Data)				
1.0	1.0			29856	R	3177	Status	see section "Status / command"				
1.0	1.0			29857	R	3178	Heat delivered DHW 9		0	9999999	kWh	1
1.0	1.0			29858				(32 Bit Data)				
1.0	1.0			29859	R	3178	Status	see section "Status / command"				
1.0	1.0			29860	R	3180	Energy brought in heating 9		0	3500000	kWh	1
1.0	1.0			29861				(32 Bit Data)				
1.0	1.0			29862	R	3180	Status	see section "Status / command"				
1.0	1.0			29863	R	3181	Energy brought in DHW 9		0	3500000	kWh	1
1.0	1.0			29864				(32 Bit Data)				
1.0	1.0			29865	R	3181	Status	see section "Status / command"				
1.0	1.0			29866	R	3183	Yearly perf factor 10		0	10	h:m	1/100
1.0	1.0			29867	R	3183	Status	see section "Status / command"				
1.0	1.0			29868	R	3183	Fixed day 10	Year	100	199	Year	1
1.0	1.0			29869	R	3183		Month	1	12	Month	1
1.0	1.0			29870	R	3183		Day	1	31	Day	1
1.0	1.0			29871	R	3183	Status	see section "Status / command"				
1.0	1.0			29872	R	3184	Heat delivered heating 10		0	9999999	kWh	1
1.0	1.0			29873				(32 Bit Data)				
1.0	1.0			29874	R	3184	Status	see section "Status / command"				
1.0	1.0			29875	R	3185	Heat delivered DHW 10		0	9999999	kWh	1
1.0	1.0			29876				(32 Bit Data)				
1.0	1.0			29877	R	3185	Status	see section "Status / command"				
1.0	1.0			29878	R	3187	Energy brought in heat 10		0	3500000	kWh	1
1.0	1.0			29879				(32 Bit Data)				
1.0	1.0			29880	R	3187	Status	see section "Status / command"				
1.0	1.0			29881	R	3188	Energy brought in DHW 10		0	3500000	kWh	1
1.0	1.0			29882				(32 Bit Data)				
1.0	1.0			29883	R	3188	Status	see section "Status / command"				
1.5	1.5			29884	R/W	3090	Pulse count heat	see controller manual	0	11		1
1.5	1.5			29885	R/W	3092	Pulse unit heat	x 0: None 1: kWh 2: Liter	0	2		1
1.5	1.5			29886	R/W	3093	Pulse value heat numer		1	1000		1
1.5	1.5			29887	R/W	3094	Pulse value heat denom		1	1000		1
1.5	1.5			29888	R/W	3095	Flow measurement heat	see controller manual	0	11		1
1.5	1.5			29889	R/W	3097	Flow heating		10	60000	l/h	1
1.5	1.5			29890	R/W	3097	Status/Command	see section "Status / command"				
1.5	1.5			29891	R/W	3098	Flow DHW		10	60000	l/h	1
1.5	1.5			29892	R/W	3098	Status/Command	see section "Status / command"				
1.5	1.5			29893	R/W	3100	Pulse count energy	see controller manual	0	11		1
1.5	1.5			29894	R/W	3102	Pulse unit energy	x 0: None 1: kWh 2: --- inadmissable setting --- 3: m3	0	3		1
1.5	1.5			29895	R/W	3103	Pulse value energy numer		1	1000		1
1.5	1.5			29896	R/W	3104	Pulse value energy denom		1	1000		1
1.5	1.5			29897	R/W	3106	Mean gas energy content		1	100	kWh/m3	1/10
1.5	1.5			29898	R/W	3108	Electrical source output		0.01	10	kW	1/100
1.5	1.5			29899	R/W	3108	Status	see section "Status / command"				
1.5	1.5			29900	R/W	3109	Count el imm heater flow	x 0: None 1: Heat delivered 2: Energy brought in	0	3		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								3: Both				
1.5	1.5			29901	R	3112	Source heat absorbed		0	3500000		1
1.5	1.5			29902				(32 Bit Data)				
1.5	1.5			29903	R	3112	Status	see section "Status / command"				
1.5	1.5			29904	R/W	3119	Fixed day yearly perf fact		1	12	Month	1
1.5	1.5			29905	R/W	3119	Fixed day yearly perf fact		1	31	Day	1
1.5	1.5			29906	R	3123	Refrigeration delivered 1		0	9999999	kWh	1
1.5	1.5			29907				(32 Bit Data)				
1.5	1.5			29908	R	3123	Status	see section "Status / command"				
1.5	1.5			29909	R	3126	Energy brought in cooling 1		0	3500000	kWh	1
1.5	1.5			29910				(32 Bit Data)				
1.5	1.5			29911	R	3126	Status	see section "Status / command"				
1.5	1.5			29912	R	3130	Refrigeration delivered 2		0	9999999	kWh	1
1.5	1.5			29913				(32 Bit Data)				
1.5	1.5			29914	R	3130	Status	see section "Status / command"				
1.5	1.5			29915	R	3133	Energy brought in cooling 2		0	3500000	kWh	1
1.5	1.5			29916				(32 Bit Data)				
1.5	1.5			29917	R	3133	Status	see section "Status / command"				
1.5	1.5			29918	R	3137	Refrigeration delivered 3		0	9999999	kWh	1
1.5	1.5			29919				(32 Bit Data)				
1.5	1.5			29920	R	3137	Status	see section "Status / command"				
1.5	1.5			29921	R	3140	Energy brought in cooling 3		0	3500000	kWh	1
1.5	1.5			29922				(32 Bit Data)				
1.5	1.5			29923	R	3140	Status	see section "Status / command"				
1.5	1.5			29924	R	3144	Refrigeration delivered 4		0	9999999	kWh	1
1.5	1.5			29925				(32 Bit Data)				
1.5	1.5			29926	R	3144	Status	see section "Status / command"				
1.5	1.5			29927	R	3147	Energy brought in cooling 4		0	3500000	kWh	1
1.5	1.5			29928				(32 Bit Data)				
1.5	1.5			29929	R	3147	Status	see section "Status / command"				
1.5	1.5			29930	R	3151	Refrigeration delivered 5		0	9999999	kWh	1
1.5	1.5			29931				(32 Bit Data)				
1.5	1.5			29932	R	3151	Status	see section "Status / command"				
1.5	1.5			29933	R	3154	Energy brought in cooling 5		0	3500000	kWh	1
1.5	1.5			29934				(32 Bit Data)				
1.5	1.5			29935	R	3154	Status	see section "Status / command"				
1.5	1.5			29936	R	3158	Refrigeration delivered 6		0	9999999	kWh	1
1.5	1.5			29937				(32 Bit Data)				
1.5	1.5			29938	R	3158	Status	see section "Status / command"				
1.5	1.5			29939	R	3161	Energy brought in cooling 6		0	3500000	kWh	1
1.5	1.5			29940				(32 Bit Data)				
1.5	1.5			29941	R	3161	Status	see section "Status / command"				
1.5	1.5			29942	R	3165	Refrigeration delivered 7		0	9999999	kWh	1
1.5	1.5			29943				(32 Bit Data)				
1.5	1.5			29944	R	3165	Status	see section "Status / command"				
1.5	1.5			29945	R	3168	Energy brought in cooling 7		0	3500000	kWh	1
1.5	1.5			29946				(32 Bit Data)				
1.5	1.5			29947	R	3168	Status	see section "Status / command"				
1.5	1.5			29948	R	3172	Refrigeration delivered 8		0	9999999	kWh	1
1.5	1.5			29949				(32 Bit Data)				
1.5	1.5			29950	R	3172	Status	see section "Status / command"				
1.5	1.5			29951	R	3175	Energy brought in cooling 8		0	3500000	kWh	1
1.5	1.5			29952				(32 Bit Data)				
1.5	1.5			29953	R	3175	Status	see section "Status / command"				
1.5	1.5			29954	R	3179	Refrigeration delivered 9		0	9999999	kWh	1
1.5	1.5			29955				(32 Bit Data)				
1.5	1.5			29956	R	3179	Status	see section "Status / command"				
1.5	1.5			29957	R	3182	Energy brought in cooling 9		0	3500000	kWh	1
1.5	1.5			29958				(32 Bit Data)				
1.5	1.5			29959	R	3182	Status	see section "Status / command"				
1.5	1.5			29960	R	3186	Refrigeration delivered 10		0	9999999	kWh	1
1.5	1.5			29961				(32 Bit Data)				
1.5	1.5			29962	R	3186	Status	see section "Status / command"				
1.5	1.5			29963	R	3189	Energy brought in cooling 10		0	3500000	kWh	1
1.5	1.5			29964				(32 Bit Data)				
1.5	1.5			29965	R	3189	Status	see section "Status / command"				
1.5	1.5			29966	R/W	3190	Reset fixed day storage	x 0: No 1: Yes	0	1		1
1.5	1.5			29967	R/W	3192	Count el imm heater DHW	x 0: None 1: Heat delivered 2: Energy brought in 3: Both	0	3		1
1.5	1.5			29968	R/W	3193	Count el imm heater buffer	x 0: None 1: Heat delivered 2: Energy brought in 3: Both	0	3		1
1.5	1.5			29969	R/W	3195	Electric pump power heating		0.01	10	kW	1/100
1.5	1.5			29970	R/W	3195	Status/Command	see section "Status / command"				
1.5	1.5			29971	R/W	3196	Electric pump power DHW		0.01	10	kW	1/100
1.5	1.5			29972	R/W	3196	Status/Command	see section "Status / command"				
1.5	1.5			29973	R/W	3250	Pulse count source	see controller manual	0	11		1
1.5	1.5			29974	R/W	3252	Pulse unit source	x 0: None 1: kWh 2: Liter	0	2		1
1.5	1.5			29975	R/W	3253	Pulse value source numer		1	1000		1
1.5	1.5			29976	R/W	3254	Pulse value source denom		1	1000		1
1.5	1.5			29977	R/W	3255	Flow measurement source	see controller manual	0	11		1
1.5	1.5			29978	R/W	3257	Flow source		10	60000	l/h	1
1.5	1.5			29979	R/W	3257	Status/Command	see section "Status / command"				
1.5	1.5			29980	R/W	3260	Antifreeze source	x 1: Wert 470; 0 2: Ethylenglycol 3: Propylenglycol 4: Mixture Ethylen- and Propylenglycol	1	4		1
1.5	1.5			29981	R/W	3261	Antifreeze concentr source		1	100	%	1
1.5	1.5			29982	R/W	3264	Energy price high-tariff		1	1000		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			29983	R/W	3264	Status/Command	see section "Status / command"				
1.5	1.5			29984	R/W	3265	Energy price low-tariff/smart grid wish		1	1000		1
1.5	1.5			29985	R/W	3265	Status/Command	see section "Status / command"				
1.5	1.5			29986	R/W	3266	Energy price smart grid imposed		1	1000		1
1.5	1.5			29987	R/W	3266	Status/Command	see section "Status / command"				
1.5	1.5			29988	R/W	3267	Energy price with alternative source		1	1000		1
1.5	1.5			29989	R/W	3267	Status/Command	see section "Status / command"				
1.6	1.6			29990	R/W	3197	Electric power compressor		0.01	10	kW	1/100
1.6	1.6			29991	R/W	3197	Status/Command	see section "Status / command"				
				0x7800…0x7BFF		**Supplementary source**						
1.0	1.0	1.1		30720	R/W	3700	Release below outside temp		-50	50	°C	1/64
1.0	1.0	1.1		30721	R/W	3700	Status/Command	see section "Status / command"				
1.0	1.0	1.1		30722	R/W	3701	Release above outside temp		-50	50	°C	1/64
1.0	1.0	1.1		30723	R/W	3701	Status/Command	see section "Status / command"				
1.0	1.0			30724	R	8586	Suppl source setpoint		0	140	°C	1/64
1.0	1.0			30725	R	8586	Status/Command	see section "Status / command"				
1.0	1.0	1.1		30726	R	8022	State supplementary source	see section "Status / command" Status codes: see controller manual	0	1000		1
1.6	1.6			30727	R/W	3690	Setpoint incr main source		0	60	°C	1/64
1.3	1.3			30728	R/W	3705	Supplementary source overrun time		0	120	min	1
1.3	1.3			30729	R/W	3720	Supplementary source switching integral		1	500	°C*min	1
1.3	1.3			30730	R/W	3720	Status/Command	see section "Status / command"				
1.3	1.3			30731	R/W	3722	Supplementary source switching diff off		0	20	°C	1/64
1.3	1.3			30732	R/W	3723	Supplementary source locking time		1	120	min	1
1.3	1.3			30733	R/W	3723	Status/Command	see section "Status / command"				
1.5	1.5			30734	R/W	3691	Ouput limit main source		1	100	%	1
1.5	1.5			30735	R/W	3691	Status/Command	see section "Status / command"				
1.5	1.5			30736	R/W	3692	Suppl source with DHW charging	0: Locked 1: Substitute x 2: Complement 3: Instantly 4: First 5: Alone	0	5		1
1.5	1.5			30737	R/W	3694	OT limit with DHW charging	0: Disregard x 1: Note	0	1		1
1.5	1.5			30738	R/W	3710	Suppl source setpoint min		0	80	°C	1/64
1.5	1.5			30739	R/W	3710	Status/Command	see section "Status / command"				
1.5	1.5			30740	R/W	3718	Supplementary source release integral		1	500	°C*min	1
1.5	1.5			30741	R/W	3718	Status/Command	see section "Status / command"				
1.5	1.5			30742	R/W	3719	Supplementary source reset integral		1	500	°C*min	1
1.5	1.5			30743	R/W	3719	Status/Command	see section "Status / command"				
1.5	1.5			30744	R/W	3725	Suppl source control sensor	x 1: None 2: Buffer sensor B4	1	2		1
1.5	1.5			30745	R/W	3750	Producer type	0: Other 1: Solid fuel boiler 2: Heat pump x 3: Oil/gas boiler	0	3		1
1.5	1.5			30746	R/W	3755	Delay lockout position		1	40	min	1
1.5	1.5			30747	R/W	3755	Status/Command	see section "Status / command"				
1.5	1.5			30748	R/W		Switching differential ouput limit main source		1	100	%	1
1.5	1.5			30749	R/W		Use of supplementary source	x 0: Supplementary 1: Hybrid	0	1		
1.5	1.5			30750	R/W		Flow temperature hybrid source	x 1: None 2: Mean value flow temp HP/boiler temp 3: Flow temp heat pump 4: Boiler temp	1	4		
1.5	1.5			30751	R/W		Pump hybrid source	x 0: Separately 1: Boiler pump Q1 2: Condenser pump Q9	0	2		
1.5	1.5			30752	R	8585	Control temperature		0	140	°C	1/64
1.5	1.5			30753	R	8585	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	30754	R		Status heat demand (K27)	x 0: Off 1: On	0	1		
1.5	1.5	1.0	1.0	30755	R		Status	see section "Status / command"				
1.5	1.5	1.1		30756	R		State suppl source control (K32)	x 0: Off 1: On	0	1		
1.5	1.5	1.1		30757	R		Status	see section "Status / command"				
1.6	1.6			30758	R/W	3695	Supplementary source release with DHW charging	x 0: According to release 1: With load only 2: With load or heating	0	2		
1.6	1.6			30759	R/W	3696	Supplementary source lock with DHW charging	x 0: With end of charging 1: No heating and B3 hot 2: Sensor B3 hot	0	2		
1.6	1.6			30760	R/W	3697	Supplementary source with DHW push	x 0: Off 1: On	0	1		
1.6	1.6			30761	R/W	3698	Supplementary source with warmer/cooler function	x 0: Off 1: On	0	1		
1.6	1.6			30762	R/W	3704	Supplementary source with heat generation lock	x 0: Off 1: On DHW 2: On	0	2		
1.6	1.6			30763	R/W	3711	Supplementary source setpoint maximum		0	140	°C	1/64
1.6	1.6			30764	R/W	3712	Setpoint chimney sweep		0	80	°C	1/64
1.6	1.6			30765	R/W		Neutral zone switching integral		0	20	°C	1/64
1.6	1.6			30766	R/W	8590	Hours run suppl source		0	199'999	h	1/3600
1.6	1.6			30767				(32 Bit Data)				
				0x7C00…0x7FFF		**Solid fuel boiler**						
1.0	1.0			31744	R/W	8570	Hours run solid fuel boiler		0	199'999	h	1/3600
1.0	1.0			31745				(32 Bit Data)				
1.0	1.0	1.0		31746	R	8560	Solid fuel boiler temp		0	140	°C	1/64
1.0	1.0	1.0		31747	R	8560	Status	see section "Status / command"				
1.0	1.0			31748	R	8561	Solid fuel boiler setpoint		0	140	°C	1/64
1.0	1.0			31749	R	8561	Status	see section "Status / command"				
1.0	1.0	1.0		31750	R	8563	Solid fuel boiler return temp		0	140	°C	1/64
1.0	1.0	1.0		31751	R	8563	Status	see section "Status / command"				
1.0	1.0			31752	R	8008	State solid fuel boiler	see section "Status / command" Status codes: see controller manual	0	1000		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.3	1.3			31753	R/W	4110	Min solid fuel boiler setpoint		8	120	°C	1/64
1.3	1.3			31754	R/W	4130	Temp differential on solid fuel boiler		1	40	°C	1/64
1.5	1.5			31755	R/W	4102	Solid fuel boiler locks other producers	0: Off x 1: On	0	1		1
1.5	1.5			31756	R/W	4103	Solid fuel boiler charg prio DHW stor tank	x 0: Off 1: On	0	1		1
1.5	1.5			31757	R/W	4114	Temperature stroke min		0	40	°C	1/64
1.5	1.5			31758	R/W	4134	Solid fuel boiler connection DHW stor tank	x 0: None 1: With sensor B3 2: With sensor B31 3: With sensor B3 and B31	0	3		1
1.5	1.5			31759	R/W	4135	Solid fuel boiler temp setp DHW charg	x 1: Wert 853; 0 2: Storage tank setpoint 3: Boiler temp setpoint min	1	3		1
1.5	1.5			31760	R/W	4136	Solid fuel boiler DHW charging with Q3	0: No x 1: Yes	0	1		1
1.5	1.5			31761	R/W	4137	Solid fuel boiler connection buffer	0: None 1: With B4 2: With B42/B41 x 3: With B4 and B42/B41	0	3		1
1.5	1.5			31762	R/W	4138	Solid fuel boiler temp setp buffer charg	x 1: Wert 853; 0 2: Storage tank setpoint 3: Boiler temp setpoint min	1	3		1
1.5	1.5			31763	R/W	4140	Pump overrun time solid fuel boiler		0	120	min	1
1.5	1.5			31764	R/W	4141	Overtemperature drop solid fuel boiler		60	140	°C	1/64
1.5	1.5			31765	R/W	4153	Return temp limitation		8	95	°C	1/64
1.5	1.5			31766	R/W	4158	Flow influence to boiler return control	x 0: Off 1: On	0	1		1
1.5	1.5			31767	R/W	4163	Actuator running time return temp limitation		30	650	s	1
1.5	1.5			31768	R/W	4164	P-band (Xp) return temp limitation		1	100	°C	1/64
1.5	1.5			31769	R/W	4165	Integral action time (Tn) return temp limitation		10	650	s	1
1.5	1.5			31770	R/W	4170	Frost protection for plant solid fuel boiler	x 0: Off 1: On	0	1		1
1.5	1.5			31771	R/W	4190	Solid fuel boiler residual heat fct dur max		5	60	min	1
1.5	1.5			31772	R/W	4190	Status/Command	see section "Status / command"				
1.5	1.5			31773	R/W	4192	Solid fuel boiler residual heat fct trigg	x 0: Once 1: Several times	0	1		1
1.5	1.5			31774	R/W	4201	Solid fuel boiler pump speed min		0	100	%	1
1.5	1.5			31775	R/W	4202	Solid fuel boiler pump speed max		0	100	%	1
1.5	1.5			31776	R/W	4203	Solid fuel boiler pump speed P-band XP		1	100	°C	1/64
1.5	1.5			31777	R/W	4204	Solid fuel boiler pump speed Tn		1	650	s	1
1.5	1.5			31778	R	8564	Solid fuel boiler return setp		0	140	°C	1/64
1.5	1.5	1.0		31779	R	8568	Speed solid fuel boiler pump		0	100	%	1
1.5	1.5	1.0		31780	R	8568	Status	see section "Status / command"				
1.5	1.5			31781	R		Status solar pump ext. Exchanger K9	x 0: Off 1: On	0	1		1
1.5	1.5			31782	R		Status	see section "Status / command"				
1.5	1.5			31783	R		Status solar actuator buffer (K8)	x 0: Off 1: On	0	1		1
1.5	1.5			31784	R		Status	see section "Status / command"				
1.5	1.5			31785	R		Status solar actuator pool (K18)	x 0: Off 1: On	0	1		1
1.5	1.5			31786	R		Status	see section "Status / command"				
		1.0		31787	R		Status Solid fuel boiler pump (Q10)	x 0: Off 1: On	0	1		1
		1.0		31788	R		Status	see section "Status / command"				
				0x8000…0x83FF	**Solar**							
1.0	1.0			32768	R/W	3810	Temp diff on		0	40	°C	1/64
1.0	1.0			32769	R/W	3811	Temp diff off		0	40	°C	1/64
1.0	1.0			32770	R/W	3812	Charg temp min DHW st tank		8	95	°C	1/64
1.0	1.0			32771	R/w	3812	Status/Command	see section "Status / command"				
1.0	1.0			32772	R/W	3813	Temp diff on buffer		0	40	°C	1/64
1.0	1.0			32773	R/W	3813	Status/Command	see section "Status / command"				
1.0	1.0			32774	R/W	3814	Temp diff off buffer		0	40	°C	1/64
1.0	1.0			32775	R/W	3814	Status/Command	see section "Status / command"				
1.0	1.0			32776	R/W	3815	Charging temp min buffer		8	95	°C	1/64
1.0	1.0			32777	R/W	3815	Status/Command	see section "Status / command"				
1.0	1.0			32778	R/W	3816	Temp diff on swi pool		0	40	°C	1/64
1.0	1.0			32779	R/W	3816	Status/Command	see section "Status / command"				
1.0	1.0			32780	R/W	3817	Temp diff off swi pool		0	40	°C	1/64
1.0	1.0			32781	R/W	3817	Status/Command	see section "Status / command"				
1.0	1.0			32782	R/W	3818	Charging temp min swi pool		8	95	°C	1/64
1.0	1.0			32783	R/W	3818	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	32784	R	8510	Collector temp 1		-28	350	°C	1/64
1.0	1.0	1.0	1.0	32785	R	8510	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	32786	R	8519	Solar flow temp		-28	350	°C	1/64
1.0	1.0	1.0	1.0	32787	R	8519	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	32788	R	8520	Solar return temp		-28	350	°C	1/64
1.0	1.0	1.0	1.0	32789	R	8520	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	32790	R	8526	24-hour yield solar energy		0	999.9	kWh	1/10
1.0	1.0	1.0	1.0	32791	R	8526	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	32792	R/W	8527	Total yield solar energy		0	199999	kWh	1/10
				32793				(32 Bit Data)				
1.0	1.0	1.0	1.0	32794	R	8527	Status/Command	see section "Status / command"				
1.0	1.0	1.0	1.0	32795	R/W	8530	Hours run solar yield		0	199'999	h	1/3600
1.0	1.0			32796				(32 Bit Data)				
1.0	1.0			32797	R/W	8531	Hours run collect overtemp		0	199'999	h	1/3600
1.0	1.0			32798				(32 Bit Data)				
1.0	1.0			32799	R	8547	Collector temp 2		-28	350	°C	1/64
1.0	1.0			32800	R	8547	Status	see section "Status / command"				
1.0	1.0	1.0		32801	R	8007	State solar	see section "Status / command" Status codes: see controller manual	0	1000		1
1.5	1.5			32802	R/W	3822	Charging priority storage	0: None x 1: DHW storage tank 2: Buffer	0	2		1
1.5	1.5			32803	R/W	3825	Charging time relative priority		2	60	min	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			32804	R/W	3825	Status/Command	see section "Status / command"				
1.5	1.5			32805	R/W	3826	Wait time relative priority		1	40	min	1
1.5	1.5			32806	R/W	3827	Wait time parallel operation		0	40	min	1
1.5	1.5			32807	R/W	3827	Status/Command	see section "Status / command"				
1.5	1.5			32808	R/W	3828	Start delay secondary pump		0	600	s	1
1.5	1.5			32809	R/W	3830	Collector Start function		5	60	min	1
1.5	1.5			32810	R/W	3830	Status/Command	see section "Status / command"				
1.5	1.5			32811	R/W	3831	Min collector pump running time		5	120	s	1
1.5	1.5			32812	R/W	3832	Collector Start function on		00:00	23:50	h:m	1/60
1.5	1.5			32813	R/W	3833	Collector Start function off		00:00	23:50	h:m	1/60
1.5	1.5			32814	R/W	3834	Collector Start function gradient		1	20	min/°C	1
1.5	1.5			32815	R/W	3834	Status/Command	see section "Status / command"				
1.5	1.5			32816	R/W	3835	Min collector temp start fct		0	30	°C	1/64
1.5	1.5			32817	R/W	3835	Status/Command	see section "Status / command"				
1.5	1.5			32818	R/W	3840	Collector frost protection temp		-20	5	°C	1/64
1.5	1.5			32819	R/W	3840	Status/Command	see section "Status / command"				
1.5	1.5			32820	R/W	3850	Collector overtemperature protection		30	350	°C	1/64
1.5	1.5			32821	R/W	3850	Status/Command	see section "Status / command"				
1.5	1.5			32822	R/W	3860	Evaporation temperature of heat carrier		60	350	°C	1/64
1.5	1.5			32823	R/W	3860	Status/Command	see section "Status / command"				
1.5	1.5			32824	R/W	3862	Impact evaporation superv	x 0: On own collector pump 1: On both collector pumps	0	1		1
1.5	1.5			32825	R/W	3870	Pump speed min solar		0	100	%	1
1.5	1.5			32826	R/W	3871	Pump speed max solar		0	100	%	1
1.5	1.5			32827	R/W	3872	Pump speed P-band XP solar		1	100	°C	1/64
1.5	1.5			32828	R/W	3873	Pump speed Integral action time Tn solar		1	650	s	1
1.5	1.5			32829	R/W	3880	Type of antifreeze added	x 1: Wert 470; 0 2: Ethylenglycol 3: Propylenglycol 4: Mixture Ethylen- and Propylenglycol	1	4		1
1.5	1.5			32830	R/W	3881	Antifreeze concentration		1	100	%	1
1.5	1.5			32831	R/W	3884	Volumetric flow solar pump		10	1500	l/h	1
1.5	1.5			32832	R/W	3884	Status/Command	see section "Status / command"				
1.5	1.5			32833	R/W	3886	Pulse count yield	x 0: None 1: With input H1 2: --- inadmissable setting --- 3: --- inadmissable setting --- 4: --- inadmissable setting --- 5: With input H21 module 1 6: With input H21 module 2 7: With input H21 module 3 8: With input H22 module 1 9: With input H22 module 2 10: With input H22 module 3 11: With input H3 12: With input H31 13: With input H32 14: With input H33	0	14		1
1.5	1.5			32834	R/W	3887	Pulse unit yield	x 0: None 1: kWh 2: Liter	0	2		1
1.5	1.5			32835	R/W	3888	Pulse value yield numer		1	1000		1
1.5	1.5			32836	R/W	3889	Pulse value yield denom		1	1000		1
1.5	1.5			32837	R/W	3891	Flow measurement yield	x 0: None 1: With input H1 2: With input H2 module 1 3: With input H2 module 2 4: With input H2 module 3 5: With input H21 module 1 6: With input H21 module 2 7: With input H21 module 3 8: With input H22 module 1 9: With input H22 module 2 10: With input H22 module 3 11: With input H3	0	11		1
1.5	1.5			32838	R/W	3896	Readj solar flow sensor B63		-20	20	°C	1/64
1.5	1.5			32839	R/W	3897	Readj solar return sensor B64		-20	20	°C	1/64
1.5	1.5	1.0	1.0	32840	R	8499	Status collector pump 1 (Q5)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	32841	R	8499	Status	see section "Status / command"				
1.5	1.5	1.0		32842	R	8505	Speed collector pump 1		0	100	%	1
1.5	1.5	1.0		32843	R	8505	Status	see section "Status / command"				
1.5	1.5			32844	R	8506	Speed solar pump ext. exchanger		0	100	%	1
1.5	1.5			32845	R	8506	Status	see section "Status / command"				
1.5	1.5			32846	R	8507	Speed solar pump buffer		0	100	%	1
1.5	1.5			32847	R	8507	Status	see section "Status / command"				
1.5	1.5			32848	R	8508	Speed solar pump pool		0	100	%	1
1.5	1.5			32849	R	8508	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	32850	R/W	8511	Collector temp max actual value 1 (B6)		-28	350	°C	1/64
1.5	1.5	1.0	1.0	32851	R	8511	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	32852	R/W	8512	Collector temp min actual value 1 (B6)		-28	350	°C	1/64
1.5	1.5	1.0	1.0	32853	R	8512	Status	see section "Status / command"				
1.5	1.5			32854	R	8513	Temp differential collector 1/DHW		-168	350	°C	1/64
1.5	1.5			32855	R	8513	Status	see section "Status / command"				
1.5	1.5			32856	R	8514	Temp differential collector 1/buffer		-168	350	°C	1/64
1.5	1.5			32857	R	8514	Status	see section "Status / command"				
1.5	1.5			32858	R	8515	Temp differential collector 1/pool		-168	350	°C	1/64
1.5	1.5			32859	R	8515	Status	see section "Status / command"				
1.5	1.5			32860	R	8521	Solar throughput		0	65535	l/min	1/10
1.5	1.5			32861	R	8521	Status	see section "Status / command"				
1.5	1.5			32862	R	8542	Status collector pump 2 (Q16)	x 0: Off 1: On	0	1		1
1.5	1.5			32863	R	8542	Status	see section "Status / command"				
1.5	1.5			32864	R	8543	Speed collector pump 2		0	100	%	1
1.5	1.5			32865	R	8543	Status	see section "Status / command"				
1.5	1.5			32866	R/W	8548	Collector temp max actual value 2 (B61)		-28	350	°C	1/64

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			32867	R	8548	Status	see section "Status / command"				
1.5	1.5			32868	R/W	8549	Collector temp min actual value 2 (B61)		-28	350	°C	1/64
1.5	1.5			32869	R	8549	Status	see section "Status / command"				
1.5	1.5			32870	R	8550	Temp differential collector 2/DHW		-168	350	°C	1/64
1.5	1.5			32871	R	8550	Status	see section "Status / command"				
1.5	1.5			32872	R	8551	Temp differential collector 2/buffer		-168	350	°C	1/64
1.5	1.5			32873	R	8551	Status	see section "Status / command"				
1.5	1.5			32874	R	8552	Temp differential collector 2/pool		-168	350	°C	1/64
1.5	1.5			32875	R	8552	Status	see section "Status / command"				
1.5	1.5			32876	R		Status solar pump ext. Exchanger K9	x 0: Off 1: On	0	1		1
1.5	1.5			32877	R		Status	see section "Status / command"				
1.5	1.5			32878	R		Status solar actuator buffer (K8)	x 0: Off 1: On	0	1		1
1.5	1.5			32879	R		Status	see section "Status / command"				
1.5	1.5			32880	R		Status solar actuator pool (K18)	x 0: Off 1: On	0	1		1
1.5	1.5			32881	R		Status	see section "Status / command"				
			1.0	32882	R	8007	State solar	see section "Status / command" Status codes: see controller manual	0	255		1
				0x8800..0x8BFF		**Cascade**						
1.0	1.0	1.1		34816	R	8100	Priority source 1		0	16		1
1.0	1.0	1.1		34817	R	8101	State source 1	x 0: Missing 1: Faulty 2: Manual control active 3: Heat generation lock active 4: Chimney sweep funct active 5: Temporarily unavailable 6: Outside temp limit active 7: Not released 8: Released	0	8		1
1.0	1.0	1.1		34818	R	8102	Priority source 2		0	16		1
1.0	1.0	1.1		34819	R	8103	State source 2	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34820	R	8104	Priority source 3		0	16		1
1.0	1.0	1.1		34821	R	8105	State source 3	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34822	R	8106	Priority source 4		0	16		1
1.0	1.0	1.1		34823	R	8107	State source 4	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34824	R	8108	Priority source 5		0	16		1
1.0	1.0	1.1		34825	R	8109	State source 5	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34826	R	8110	Priority source 6		0	16		1
1.0	1.0	1.1		34827	R	8111	State source 6	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34828	R	8112	Priority source 7		0	16		1
1.0	1.0	1.1		34829	R	8113	State source 7	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34830	R	8114	Priority source 8		0	16		1
1.0	1.0	1.1		34831	R	8115	State source 8	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34832	R	8116	Priority source 9		0	16		1
1.0	1.0	1.1		34833	R	8117	State source 9	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34834	R	8118	Priority source 10		0	16		1
1.0	1.0	1.1		34835	R	8119	State source 10	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34836	R	8120	Priority source 11		0	16		1
1.0	1.0	1.1		34837	R	8121	State source 11	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34838	R	8122	Priority source 12		0	16		1
1.0	1.0	1.1		34839	R	8123	State source 12	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34840	R	8124	Priority source 13		0	16		1
1.0	1.0	1.1		34841	R	8125	State source 13	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34842	R	8126	Priority source 14		0	16		1
1.0	1.0	1.1		34843	R	8127	State source 14	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34844	R	8128	Priority source 15		0	16		1
1.0	1.0	1.1		34845	R	8129	State source 15	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.1		34846	R	8130	Priority source 16		0	16		1
1.0	1.0	1.1		34847	R	8131	State source 16	x 0: Missing .... 8: Released	0	8		1
1.0	1.0	1.0		34848	R	8138	Cascade flow temp		0	140	°C	1/64
1.0	1.0	1.0		34849	R	8138	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	34850	R	8139	Cascade flow temp setp		0	140	°C	1/64
1.0	1.0	1.0	1.0	34851	R	8139	Status	see section "Status / command"				
1.0	1.0	1.1		34852	R	8150	Source seq ch'over current		0	990	h	1
1.0	1.0	1.1		34853	R	8150	Status	see section "Status / command"				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.3	1.3	1.0	1.0	34854	R/W	3530	Release limit producer sequence		0	500	°C*min	1
1.3	1.3	1.0	1.0	34855	R/W	3531	Reset limit producer sequence		0	500	°C*min	1
1.3	1.3	1.0	1.0	34856	R/W	3533	Switch-on delay lag heat source		0	120	min	1
1.5	1.5			34857	R/W	3510	Cascade control strategy	1: None x 2: Late on, late off 3: Early on, late off 4: According to buffer temperature	1	4		1
1.5	1.5			34858	R/W	3511	Power range, lower limit (Pmin)		0	100	%	1
1.5	1.5			34859	R/W	3512	Power range, upper limit (Pmax)		0	100	%	1
1.5	1.5			34860	R/W	3514	Switching sequence	1: None x 2: Serial, last stage released 3: Parallel, release last stage	1	3		1
1.5	1.5			34861	R/W	3516	Maximum number of producer forced charging		1	16		1
1.5	1.5			34862	R/W	3517	Max source force charg OT		-20	15	°C	1/64
1.5	1.5			34863	R/W	3517	Status/Command	see section "Status / command"				
1.5	1.5			34864	R/W	3518	Number of sources defrosting allowed		1	100	%	1
1.5	1.5			34865	R/W	3522	Release integral source sequence, cooling		1	200	°C*min	1
1.5	1.5			34866	R/W	3523	Reset integral source sequence, cooling		1	200	°C*min	1
1.5	1.5			34867	R/W	3525	Switch-on delay source sequence, cooling		0	20	min	1
1.5	1.5			34868	R/W	3538	Substitute common flow temp	0: None x 1: Max prod value 2: Internal prod value 3: Median prod value	0	3		1
1.5	1.5			34869	R/W	3540	Time to automatic producer sequence switching		10	990	h	1
1.5	1.5			34870	R/W	3540	Status/Command	see section "Status / command"				
1.5	1.5			34871	R/W	3541	Exclude at automatic producer sequence switching	x 0: none 1: First producer 2: Last producer 3: First and last producer	0	3		1
1.5	1.5			34872	R/W	3542	Source sequence cooling, mirrored	0: No x 1: Yes	0	1		1
1.5	1.5	1.0	1.0	34873	R/W	3544	Leading producer	x 1: Wert 686; 0 2: Producer 2 3: Producer 3 4: Producer 4 5: Producer 5 6: Producer 6 7: Producer 7 8: Producer 8 9: Producer 9 10: Producer 10 11: Producer 11 12: Producer 12 13: Producer 13 14: Producer 14 15: Producer 15 16: Producer 16	1	16		1
1.5	1.5	1.0	1.0	34874	R	3544	Status	see section "Status / command"				
1.5	1.5			34875	R/W	3590	Min temp differential hydraulic balancing		0	20	°C	1/64
1.5	1.5			34876	R/W	3590	Status/Command	see section "Status / command"				
1.5	1.5			34877	R/W		Neutral zone heating cascade		1	10	°C	1/64
1.5	1.5			34878	R/W		Neutral zone cooling cascade		1	20	°C	1/64
1.5	1.5			34879	R/W	5840	Solar actuating device	x 1: No charging request 2: Diverting valve	1	2		1
1.5	1.5			34880	R/W	5841	External solar exchanger	x 1: None 2: DHW storage tank 3: Buffer storage tank	1	3		1
1.5	1.5			34881	R		Priority cooling source 1		0	16		1
1.5	1.5			34882	R		Priority cooling source 2		0	16		1
1.5	1.5			34883	R		Priority cooling source 3		0	16		1
1.5	1.5			34884	R		Priority cooling source 4		0	16		1
1.5	1.5			34885	R		Priority cooling source 5		0	16		1
1.5	1.5			34886	R		Priority cooling source 6		0	16		1
1.5	1.5			34887	R		Priority cooling source 7		0	16		1
1.5	1.5			34888	R		Priority cooling source 8		0	16		1
1.5	1.5			34889	R		Priority cooling source 9		0	16		1
1.5	1.5			34890	R		Priority cooling source 10		0	16		1
1.5	1.5			34891	R		Priority cooling source 11		0	16		1
1.5	1.5			34892	R		Priority cooling source 12		0	16		1
1.5	1.5			34893	R		Priority cooling source 13		0	16		1
1.5	1.5			34894	R		Priority cooling source 14		0	16		1
1.5	1.5			34895	R		Priority cooling source 15		0	16		1
1.5	1.5			34896	R		Priority cooling source 16		0	16		1
1.5	1.5	1.0	1.0	34897	R	8140	Cascade return temp actual value		0	140	°C	1/64
1.5	1.5	1.0	1.0	34898	R	8140	Status	see section "Status / command"				
1.5	1.5			34899	R	8141	Cascade return temp actual setpoint		0	140	°C	1/64
1.5	1.5			34900	R	8141	Status	see section "Status / command"				
1.5	1.5			34901	R	8144	Cooling cascade flow temp		0	140	°C	1/64
1.5	1.5			34902	R	8144	Status	see section "Status / command"				
1.5	1.5			34903	R	8145	Cooling casc flow temp setp		0	140	°C	1/64
1.5	1.5			34904	R	8145	Status	see section "Status / command"				
1.5	1.5			34905	R	8155	Time up to auto ch'over source sequence cooling		0	990	h	1
1.5	1.5			34906	R	8155	Status	see section "Status / command"				
1.5	1.5	1.0	1.0	34907	R		State cascade pump (Q25)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	34908	R		Status	see section "Status / command"				
1.5	1.5			34909	R/W	3535	Switch-on delay DHW		0	120	min	1
1.6	1.6			34910	R		Switching sequence actual		0	255		1
1.6	1.6			34911	R		Heating cascade sequence		0	255		1
1.6	1.6			34912	R		Sequence cooling cascade current		0	255		1
1.6	1.6			34913	R		Number of cooling sources		0	255		1
1.6	1.6			34914	R		Number of sources with active cooling		0	255		1
1.6	1.6			34915	R		Number of sources with passive cooling		0	255		1
1.6	1.6			34916	R		Number of cooling sources with optimum energy		0	255		1
1.6	1.6			34917	R		Common cooling	x 0: None 1: Common 1 2: Common 2	0	2		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
		1.0	1.0	34918	R	8138	Cascade flow temp (B10)		0	140	°C	1/64
		1.0	1.0	34919	R/W	3532	Restart lock time		0	1800	s	1
				0x8C00..0x8FFF	**General functions**							
1.0	1.0			35840	R/W	5570	Temp diff on dT contr 1		0	40	°C	1/64
1.0	1.0			35841	R/W	5571	Temp diff off dT contr 1		0	40	°C	1/64
1.0	1.0			35842	R/W	5572	On temp min dT contr 1		-30	120	°C	1/64
1.0	1.0			35843	R/W	5580	Temp diff on dT contr 2		0	40	°C	1/64
1.0	1.0			35844	R/W	5581	Temp diff off dT contr 2		0	40	°C	1/64
1.0	1.0			35845	R/W	5582	On temp min dT contr 2		-30	120	°C	1/64
1.0	1.0			35846	R/W	6110	Time constant building		0	50	h	1
1.0	1.0		1.0	35847	R	8565	Flue gas temp		0	350	°C	1/64
1.0	1.0		1.0	35848	R	8565	Status	see section "Status / command"				
1.5	1.5			35849	R/W	8567	Flue gas temp max		0	350	°C	1/64
1.0	1.0			35850	R	8567	Status	see section "Status / command"				
1.0	1.0	1.0	1.0	35851	R	8700	Outside temp		-50	50	°C	1/64
1.0	1.0	1.0	1.0	35852	R	8700	Status	see section "Status / command"				
1.5	1.5			35853	R/W	8701	Outside temp min		-50	50	°C	1/64
1.5	1.5			35854	R/W	8702	Outside temp max		-50	50	°C	1/64
1.0	1.0			35855	R/W	8703	Outside temp attenuated		-50	50	°C	1/64
1.0	1.0			35856	R	8704	Outside temp composite		-50	50	°C	1/64
1.0	1.0			35857	R/W	7150	Simulation outside temp		-50	50	°C	1/64
1.0	1.0			35858	R/W	7150	Status/Command	see section "Status / command"				
1.0	1.0			35859	R/W	5600	Air dehumidifier	x 0: Off 1: On	0	1		1
1.0	1.0			35860	R/W	5602	Air dehumidifier r.h. on		0	100	%	1
1.0	1.0			35861	R/W	5603	Air dehumidifier r.h. SD		2	50	%	1
1.0	1.0	1.0	1.0	35862	R/W	6710	Reset alarm relay	x 0: No 1: Yes	0	1		1
1.0	1.0			35863	R/W	7120	Economy mode	x 0: Off 1: On	0	1		1
1.0	1.0			35864	R/W	7120	Status/Command	see section "Status / command"				
1.0	1.0			35865	R/W	7141	Emergency operation	x 0: Off 1: On	0	1		1
1.5	1.5			35866	R/W	7119	Eco function	x 0: Locked 1: Released	0	1		1
1.5	1.5			35867	R/W	7142	Backup operation function type	x 1: Wert 504; 0 2: Automatically	1	2		1
1.5	1.5			35868	R/W	5573	Sensor 1 dT controller 1	see controller manual	0	38		1
1.5	1.5			35869	R/W	5574	Sensor 2 dT controller 1	see controller manual	0	38		1
1.5	1.5			35870	R/W	5575	On time min dT contr 1		0	250	s	1
1.5	1.5			35871	R/W	5577	Pump/valve kick K21	0: Off x 1: On	0	1		1
1.5	1.5			35872	R/W	5583	Sensor 1 dT controller 2	see controller manual	0	38		1
1.5	1.5			35873	R/W	5584	Sensor 2 dT controller 2	see controller manual	0	38		1
1.5	1.5			35874	R/W	5585	On time min dT contr 2		0	250	s	1
1.5	1.5			35875	R/W	5587	Pump/valve kick K22	0: Off x 1: On	0	1		1
1.5	1.5			35876	R/W	5606	Release air dehumidifier	x 1: Wert 682; 0 2: Time program heating circuit 3: Time program 5	1	3		1
1.5	1.5			35877	R/W	5608	Air dehumidiefier acquisition air r.h.	x 0: None 1: With input H1 2: With input H2 module 1 3: With input H2 module 2 4: With input H2 module 3 5: With input H21 module 1 6: With input H21 module 2 7: With input H21 module 3 8: With input H22 module 1 9: With input H22 module 2 10: With input H22 module 3 11: With input H3	0	11		1
1.5	1.5			35878	R/W		Outside air temp control	0: Off 1: Summer only 2: Winter only x 3: Summer and Winter	0	3		1
1.5	1.5			35879	R/W		Outside air temp control below outside temp		-20	20	°C	1/64
1.5	1.5			35880	R/W		Outside air temp control, temp diff		-20	20	°C	1/64
1.5	1.5			35881	R/W		Outside air temp control, on time min		0	255	min	1
1.5	1.5			35882	R/W		Outside air temp control, off time min		0	255	min	1
1.5	1.5			35883	R	8723	Relative air humidity		0	100	%	1
1.5	1.5			35884	R	8723	Status	see section "Status / command"				
1.5	1.5			35885	R		State air dehumidifier (K29)	x 0: Off 1: On	0	1		1
1.5	1.5			35886	R		Status	see section "Status / command"				
1.5	1.5	1.0	1.0	35887	R		State alarm relay (K10)	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	35888	R		Status	see section "Status / command"				
1.5	1.5			35889	R		Status time program 5 relais (K13)	x 0: Off 1: On	0	1		1
1.5	1.5			35890	R		Status	see section "Status / command"				
1.5	1.5	1.0	1.0	35891	R		Status delta-T controller 1 K21	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	35892	R		Status	see section "Status / command"				
1.5	1.5	1.0	1.0	35893	R		Status delta-T controller 2 K22	x 0: Off 1: On	0	1		1
1.5	1.5	1.0	1.0	35894	R		Status	see section "Status / command"				
1.5	1.5			35895	R/W	7121	End economy mode	x 1: Wert 504; 0 2: Automatically	1	2		1
1.6	1.6			35896	R/W	5578	Off temp max dT contr 1		-30	120	°C	1/64
1.6	1.6			35897	R/W	5578	Status/Command	see section "Status / command"				
1.6	1.6			35898	R/W	5588	Off temp max dT contr 2		-30	120	°C	1/64
1.6	1.6			35899	R/W	5588	Status/Command	see section "Status / command"				
1.6	1.6			35900	R/W		Displ event message electr immers heater	x 0: No 1: Yes	0	1		1
1.6	1.6	1.0	1.0	35901	R/W	7130	Chimney sweep function	x 0: Off 1: On	0	1		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.6	1.6			35902	R/W	7154	Release without source protection		0	240	h	1
		1.0	1.0	35903	R/W	7131	Chimney sweep function burner output	1: Wert 519; 0 2: High-fire x 3: Max heating load	1	3		1
		1.0	1.0	35904	R/W	7140	Manual operation	x 0: Off 1: On	0	1		1
			1.0	35905	R/W	7143	Controller stop function	x 0: Off 1: On	0	1		1
			1.0	35906	R/W	7145	Controller stop setpoint		0	100	%	1
				0x9000…0x93FF		**Configuration**						
1.5	1.5			36864	R/W	5700	Plant diagram selection		1	24		1
1.5	1.5			36865	R/W	5700	Status/Command	see section "Status / command"				
1.5	1.5			36866	R		Plant diagram selection validity	x 0: Changed 1: Unchanged	0	1		1
1.6	1.6			36867	R/W	5890	Relay output QX1	see controller manual	0	83		1
1.6	1.6			36868	R/W	5891	Relay output QX2	see controller manual	0	83		1
1.6	1.6			36869	R/W	5892	Relay output QX3	see controller manual	0	83		1
1.6	1.6			36870	R/W	5894	Triac output ZX4 / Relay output QX4	see controller manual	0	83		1
1.6	1.6			36871	R/W	5895	Relay output QX5	see controller manual	0	83		1
1.6	1.6			36872	R/W	5896	Triac output ZX6 / Relay output QX6	see controller manual	0	83		1
1.6	1.6			36873	R/W	5897	Relay output QX7	see controller manual	0	83		1
1.6	1.6			36874	R/W	5898	Relay output QX8	see controller manual	0	83		1
1.6	1.6			36875	R/W	5899	Relay output QX9	see controller manual	0	83		1
1.6	1.6			36876	R/W	5900	Relay output QX10	see controller manual	0	83		1
1.6	1.6			36877	R/W	5901	Relay output QX11	see controller manual	0	83		1
1.6	1.6			36878	R/W	5902	Relay output QX12	see controller manual	0	83		1
1.6	1.6			36879	R/W	5903	Relay output QX13	see controller manual	0	83		1
1.5	1.5			36880	R/W	5909	Function output ZX4-Mod	see controller manual	0	35		1
1.5	1.5			36881	R/W	5930	Sensor input BX1	see controller manual	0	45		1
1.5	1.5			36882	R/W	5931	Sensor input BX2	see controller manual	0	45		1
1.5	1.5			36883	R/W	5932	Sensor input BX3	see controller manual	0	42		1
1.5	1.5			36884	R/W	5933	Sensor input BX4	see controller manual	0	42		1
1.5	1.5			36885	R/W	5934	Sensor input BX5	see controller manual	0	34		1
1.5	1.5			36886	R/W	5935	Sensor input BX6	see controller manual	0	34		1
1.5	1.5			36887	R/W	5936	Sensor input BX7	see controller manual	0	42		1
1.5	1.5			36888	R/W	5937	Sensor input BX8	see controller manual	0	42		1
1.5	1.5			36889	R/W	5938	Sensor input BX9	see controller manual	0	42		1
1.5	1.5			36890	R/W	5939	Sensor input BX10	see controller manual	0	42		1
1.5	1.5			36891	R/W	5940	Sensor input BX11	see controller manual	0	42		1
1.5	1.5			36892	R/W	5941	Sensor input BX12	see controller manual	0	42		1
1.5	1.5			36893	R/W	5942	Sensor input BX13	see controller manual	0	45		1
1.5	1.5			36894	R/W	5943	Sensor input BX14	see controller manual	0	45		1
1.5	1.5	1.0	1.0	36895	R/W	5950	Input H1 function selection	see controller manual	0	61		1
1.5	1.5		1.0	36896	R/W	5951	Type of contact H1	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			36897	R/W	5953	Input value 1 H1		0	1000		1/10
1.5	1.5			36898	R/W	5954	Function value 1 H1		-100	500		1/10
1.5	1.5			36899	R/W	5955	Input value 2 H1		0	1000		1/10
1.5	1.5			36900	R/W	5956	Function value 2 H1		-100	500		1/10
1.5	1.5			36901	R/W	5957	Temperature sensor H1	see controller manual	0	21		1
1.5	1.5			36902	R/W	5960	Input H3 function selection	see controller manual	0	61		1
1.5	1.5			36903	R/W	5961	Type of contact H3	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			36904	R/W	5963	Input value 1 H3		0	1000		1/10
1.5	1.5			36905	R/W	5964	Function value1 H3		-100	500		1/10
1.5	1.5			36906	R/W	5965	Input value 2 H3		0	1000		1/10
1.5	1.5			36907	R/W	5966	Function value 2 H3		-100	500		1/10
1.5	1.5			36908	R/W	5967	Temperature sensor H3	see controller manual	0	21		1
1.6	1.6			36909	R/W	5980	Function input EX1	see controller manual	0	30		1
1.5	1.5			36910	R/W	5981	Operating action input EX1	0: normal closed x 1: normal opened	0	1		1
1.6	1.6			36911	R/W	5982	Function input EX2	see controller manual	0	30		1
1.5	1.5			36912	R/W	5983	Operating action input EX2	0: normal closed x 1: normal opened	0	1		1
1.6	1.6			36913	R/W	5984	Function input EX3	see controller manual	0	30		1
1.5	1.5			36914	R/W	5985	Operating action input EX3	0: normal closed x 1: normal opened	0	1		1
1.6	1.6			36915	R/W	5986	Function input EX4	see controller manual	0	30		1
1.5	1.5			36916	R/W	5987	Operating action input EX4	0: normal closed x 1: normal opened	0	1		1
1.6	1.6			36917	R/W	5988	Function input EX5	see controller manual	0	30		1
1.5	1.5			36918	R/W	5989	Operating action input EX5	0: normal closed x 1: normal opened	0	1		1
1.6	1.6			36919	R/W	5990	Function input EX6	see controller manual	0	30		1
1.5	1.5			36920	R/W	5991	Operating action input EX6	0: normal closed x 1: normal opened	0	1		1
1.6	1.6			36921	R/W	5992	Function input EX7	see controller manual	0	30		1
1.5	1.5			36922	R/W	5993	Operating action input EX7	0: normal closed x 1: normal opened	0	1		1
1.6	1.6			36923	R/W	5996	Function input EX9	see controller manual	0	30		1
1.6	1.6			36924	R/W	5997	Function input EX10	see controller manual	0	30		1
1.6	1.6			36925	R/W	5998	Function input EX11	see controller manual	0	30		1
1.5	1.5			36926	R/W	5999	Operating action input EX9	x 0: normal closed 1: normal opened	0	1		1
1.5	1.5			36927	R/W	6000	Operating action input EX10	x 0: normal closed 1: normal opened	0	1		1
1.5	1.5			36928	R/W	6001	Operating action input EX11	x 0: normal closed 1: normal opened	0	1		1
1.5	1.5			36929	R/W	6014	Function mixing valve group 1	see controller manual	1	20		1
1.5	1.5			36930	R/W	6014	Function mixing valve group 1	see controller manual	1	20		1
1.5	1.5			36931	R/W	6070	Function output UX1	see controller manual	0	35		1
1.5	1.5			36932	R/W	6071	Signal logic output UX1	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			36933	R/W	6072	Signal output UX1	x 0: 0..10V 1: PWM	0	1		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			36934	R/W	6075	Temperature value 10V UX1		5	130	°C	1/64
1.5	1.5			36935	R/W	6076	Output voltage UX1		0	10	V	1/10
1.5	1.5			36936	R/W	6078	Function output UX2	see controller manual	0	35		1
1.5	1.5			36937	R/W	6079	Signal logic output UX2	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			36938	R/W	6080	Signal output UX2	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			36939	R/W	6084	Temperature value 10V UX2		5	130	°C	1/64
1.5	1.5			36940	R/W	6087	Output voltage UX2		0	10	V	1/10
1.5	1.5			36941	R/W	6089	Function output UX3	see controller manual	0	30		1
1.5	1.5			36942	R/W	6090	Signal logic output UX3	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			36943	R/W	6091	Signal output UX3	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			36944	R/W	6094	Temperature value 10V UX		5	130	°C	1/64
1.5	1.5			36945	R/W	6095	Output voltage UX3		0	10	V	1/10
1.5	1.5			36946	R/W	6096	Sensor type device	x 1: Wert 594; 0 2: NTC 5k	1	2		1
1.5	1.5			36947	R/W	6097	Sensor type collector	x 1: Wert 595; 0 2: Pt 1000	1	2		1
1.5	1.5			36948	R/W	6098	Measured value corr collector sensor 1 (B6)		-20	20	°C	1/64
1.5	1.5			36949	R/W	6099	Measured value corr collector sensor 2 (B61)		-20	20	°C	1/64
1.5	1.5			36950	R/W	6100	Outside temp sensor measuring correction		-3	3	°C	1/64
1.5	1.5			36951	R/W	6101	Sensor type flue gas temperature	x 1: Wert 595; 0 2: Pt 1000	1	2		1
1.5	1.5			36952	R/W	6102	Measured value corr flue gas sensor (B8)		-20	20	°C	1/64
1.5	1.5			36953	R/W	6104	Sensor type solar flow/return	x 1: Wert 595; 0 2: Pt 1000	1	2		1
1.5	1.5			36954	R/W	6105	Sensor type heat pump flow/return	x 1: Wert 595; 0 2: Pt 1000	1	2		1
1.5	1.5			36955	R/W	6106	Sensor type source inlet/outlet	x 1: Wert 595; 0 2: Pt 1000	1	2		1
1.5	1.5			36956	R/W	6110	Building time constant		0	50	h	1
1.5	1.5			36957	R/W	6114	Setp compensation Xp		1	100	°C	1/64
1.5	1.5			36958	R/W	6115	Setp compensation Tn		10	650	s	1
1.5	1.5			36959	R/W	6116	Time constant setpoint compensation		0	14	min	1
1.5	1.5			36960	R/W	6117	Central setpoint shift		1	100	°C	1/64
1.5	1.5			36961	R/W	6117	Status/Command	see section "Status / command"				
1.5	1.5			36962	R/W	6118	Setpoint reduction delay		1	200	K/min	1
1.5	1.5			36963	R/W	6118	Status/Command	see section "Status / command"				
1.5	1.5			36964	R/W	6119	Central setp compens cooling		-20	-1	°C	1/64
1.5	1.5			36965	R/W	6119	Status/Command	see section "Status / command"				
1.5	1.5			36966	R/W	6120	Frost protection for the plant	0: Off x 1: On	0	1		1
1.5	1.5			36967	R/W	6123	Restart lock pumps		0	600	s	1
1.5	1.5			36968	R/W	6123	Status/Command	see section "Status / command"				
1.5	1.5			36969	R/W	6140	Water pressure max		0	10	bar	1/10
1.5	1.5			36970	R/W	6140	Status/Command	see section "Status / command"				
1.5	1.5			36971	R/W	6141	Water pressure min		0	10	bar	1/10
1.5	1.5			36972	R/W	6141	Status/Command	see section "Status / command"				
1.5	1.5			36973	R/W	6142	Water pressure critical min		0	10	bar	1/10
1.5	1.5			36974	R/W	6142	Status/Command	see section "Status / command"				
1.5	1.5			36975	R/W	6148	Static press supervision 1	see controller manual	0	11		1
1.5	1.5			36976	R/W	6150	Water pressure 2 max		0	10	bar	1/10
1.5	1.5			36977	R/W	6150	Status/Command	see section "Status / command"				
1.5	1.5			36978	R/W	6151	Water pressure 2 min		0	10	bar	1/10
1.5	1.5			36979	R/W	6151	Status/Command	see section "Status / command"				
1.5	1.5			36980	R/W	6152	Water pressure 2 critical min		0	10	bar	1/10
1.5	1.5			36981	R/W	6152	Status/Command	see section "Status / command"				
1.5	1.5			36982	R/W	6154	Static press supervision 2	see controller manual	0	11		1
1.5	1.5			36983	R/W	6180	Water pressure 3 max		0	10	bar	1/10
1.5	1.5			36984	R/W	6180	Status/Command	see section "Status / command"				
1.5	1.5			36985	R/W	6181	Water pressure 3 min		0	10	bar	1/10
1.5	1.5			36986	R/W	6181	Status/Command	see section "Status / command"				
1.5	1.5			36987	R/W	6182	Water pressure 3 critical min		0	10	bar	1/10
1.5	1.5			36988	R/W	6182	Status/Command	see section "Status / command"				
1.5	1.5			36989	R/W	6184	Static press supervision 3	see controller manual	0	11		1
1.5	1.5			36990	R/W	6200	Store sensor	x 0: No 1: Yes	0	1		1
1.5	1.5			36991	R/W	6201	Delete sensors	x 0: No 1: Yes	0	1		1
1.5	1.5			36992	R/W	6204	Store parameter	x 0: No 1: Yes	0	1		1
1.5	1.5			36993	R/W	6205	Reset parameter	x 0: No 1: Yes	0	1		1
1.8	1.8			36994	R	6212	Control number heat generation 1		0	199999		1
1.8	1.8			36995				(32 Bit Data)				
1.8	1.8			36996	R	6213	Control number heat generation 2		0	199999		1
1.8	1.8			36997				(32 Bit Data)				
1.5	1.5			36998	R/W	6290	Acquisition room temperature 1	see controller manual	0	11		1
1.5	1.5			36999	R/W	6291	Acquisition room temperature 2	see controller manual	0	11		1
1.5	1.5			37000	R/W	6292	Acquisition room temperature 3	see controller manual	0	11		1
1.5	1.5			37001	R/W	6293	Room 1 r.h. measurement	see controller manual	0	11		1
1.5	1.5			37002	R/W	6294	Room 2 r.h. measurement	see controller manual	0	11		1
1.5	1.5			37003	R/W	6295	Room 3 r.h. measurement	see controller manual	0	11		1
1.5	1.5			37004	R/W	6296	Acquisition room air quality 1	see controller manual	0	14		1
1.5	1.5			37005	R/W	6297	Acquisition room air quality 2	see controller manual	0	14		1
1.5	1.5			37006	R/W	6298	Acquisition room air quality 3	see controller manual	0	14		1
1.5	1.5			37007	R/W	6331	PWM period electric flow		0	999	s	1
1.5	1.5			37008	R/W	6332	PWM Ausschaltzeit Elektro-Vorlauf Modulation		0	999	s	1
1.5	1.5			37009	R/W	6333	PWM Einschaltzeit Elektro-Vorlauf Modulation		0	999	s	1
1.5	1.5			37010	R/W	6334	PWM delay electric flow 2		0	100	s	1
1.8	1.8			37011	R	6215	Control number storage tank		0	199999		1
1.8	1.8			37012				(32 Bit Data)				
1.8	1.8			37013	R	6217	Control number heating circuits		0	199999		1
1.8	1.8			37014				(32 Bit Data)				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			37015	R/W	6358	Voltage output GX1	x 2: Off	2	2		1
1.5	1.5			37016	R/W	6362	Polynomial coeff 0 heat UX		-1000	1000		1
1.5	1.5			37017	R/W	6363	Polynomial coeff 1 heat UX		-1000	1000		1
1.5	1.5			37018	R/W	6364	Polynomial coeff 2 heat UX		-1000	1000		1
1.5	1.5			37019	R/W	6365	Polynomial coeff 3 heat UX		-1000	1000		1
1.5	1.5			37020	R/W	6366	Polynomial coeff 0 cool UX		-1000	1000		1
1.5	1.5			37021	R/W	6367	Polynomial coeff 1 cool UX		-1000	1000		1
1.5	1.5			37022	R/W	6368	Polynomial coeff 2 cool UX		-1000	1000		1
1.5	1.5			37023	R/W	6369	Polynomial coeff 3 cool UX		-1000	1000		1
1.6	1.6			37024	R/W	6371	Relay output QX31	see controller manual	0	83		1
1.6	1.6			37025	R/W	6372	Relay output QX32	see controller manual	0	83		1
1.6	1.6			37026	R/W	6373	Relay output QX33	see controller manual	0	83		1
1.6	1.6			37027	R/W	6374	Triac output ZX34 / Relay output QX34	see controller manual	0	83		1
1.6	1.6			37028	R/W	6375	Relay output QX35	see controller manual	0	83		1
1.5	1.5			37029	R/W	6384	Function output ZX34-Mod	see controller manual	0	35		1
1.5	1.5			37030	R/W	6391	Sensor input BX31	see controller manual	0	42		1
1.5	1.5			37031	R/W	6392	Sensor input BX32	see controller manual	0	42		1
1.5	1.5			37032	R/W	6393	Sensor input BX33	see controller manual	0	42		1
1.5	1.5			37033	R/W	6394	Sensor input BX34	see controller manual	0	42		1
1.5	1.5			37034	R/W	6395	Sensor input BX35	see controller manual	0	42		1
1.5	1.5			37035	R/W	6396	Sensor input BX36	see controller manual	0	42		1
1.5	1.5			37036	R/W	6400	Function input H31	see controller manual	0	61		1
1.5	1.5			37037	R/W	6401	Contact type H31	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			37038	R/W	6403	Input value 1 H31		0	1000		1/10
1.5	1.5			37039	R/W	6404	Funct value 1 H31		-100	500		1/10
1.5	1.5			37040	R/W	6405	Input value 2 H31		0	1000		1/10
1.5	1.5			37041	R/W	6406	Funct value 2 H31		-100	500		1/10
1.5	1.5			37042	R/W	6407	Temperature sensor H31	see controller manual	0	21		1
1.5	1.5			37043	R/W	6410	Function input H32	see controller manual	0	61		1
1.5	1.5			37044	R/W	6411	Contact type H32	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			37045	R/W	6413	Input value 1 H32		0	1000		1/10
1.5	1.5			37046	R/W	6414	Funct value 1 H32		-100	500		1/10
1.5	1.5			37047	R/W	6415	Input value 2 H32		0	1000		1/10
1.5	1.5			37048	R/W	6416	Funct value 2 H32		-100	500		1/10
1.5	1.5			37049	R/W	6417	Temperature sensor H32	see controller manual	0	21		1
1.5	1.5			37050	R/W	6420	Function input H33	see controller manual	0	61		1
1.5	1.5			37051	R/W	6421	Contact type H33	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			37052	R/W	6423	Input value 1 H33		0	1000		1/10
1.5	1.5			37053	R/W	6424	Funct value 1 H33		-100	500		1/10
1.5	1.5			37054	R/W	6425	Input value 2 H33		0	1000		1/10
1.5	1.5			37055	R/W	6426	Funct value 2 H33		-100	500		1/10
1.5	1.5			37056	R/W	6455	Function mixing valve group 31	see controller manual	1	20		1
1.5	1.5			37057	R/W	6470	Function output WX31	x 0: None 1: Expansion valve evapor V81 2: Expansion valve EVI V82	0	2		1
1.8	1.8			37058	R/W	6345	Code Commissioning		0	99999		1
1.8	1.8			37059				(32 Bit Data)				
1.8	1.8			37060	R/W	6346	Code Engineer		0	99999		1
1.8	1.8			37061				(32 Bit Data)				
1.8	1.8			37062	R/W	6347	Code OEM		0	99999		1
1.8	1.8			37063				(32 Bit Data)				
1.8	1.8			37064	R/W	6348	Code OEM 2		0	99999		1
1.8	1.8			37065				(32 Bit Data)				
			1.0	37078	R/W	5977	Input H5 function selection	see controller manual	0	32		1
			1.0	37079	R/W	5978	Type of contact H5		0	1		1
			1.0	37095	R	6226	Device variant		0	255		1
			1.0	37096	R	6230			0	65535		1
1.0	1.0	1.0	1.0	0x9400..0x97FF		**Device**						
1.0	1.0			37888	R/W	7700	Relay test	see controller manual	0	28		1
1.0	1.0			37889	R/W	7710	Output test UX1		0	100	%	1
1.0	1.0			37890	R/W	7710	Status/Command	see section "Status / command"				
1.0	1.0			37891	R	7711	Output signal UX1		0	10 100	V %	1/100
1.0	1.0			37892	R	7711	Status	see section "Status / command"				
1.0	1.0			37893	R	7711	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5	V	1/10
1.0	1.0			37894	R/W	7716	Output test UX2		0	100	%	1
1.0	1.0			37895	R/W	7716	Status/Command	see section "Status / command"				
1.0	1.0			37896	R	7717	Output signal UX2		0	10 100	V %	1/100
1.0	1.0			37897	R	7717	Status	see section "Status / command"				
1.0	1.0			37898	R	7717	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37899	R/W	7724	Output test UX3		0	100	%	1
1.0	1.0			37900	R/W	7724	Status	see section "Status / command"				
1.0	1.0			37901	R	7725	Output signal UX3		0	10 100	V %	1/100
1.0	1.0			37902	R	7725	Status	see section "Status / command"				
1.0	1.0			37903	R	7725	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37904	R/W	7780	Output test UX21 module 1		0	100	%	1
1.0	1.0			37905	R/W	7780	Status/Command	see section "Status / command"				
1.0	1.0			37906	R	7781	Output signal UX21 module 1		0	10 100	V %	1/100
1.0	1.0			37907	R	7781	Status	see section "Status / command"				
1.0	1.0			37908	R	7781	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37909	R/W	7782	Output test UX22 module 1		0	100	%	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			37910	R/W	7782	Status/Command	see section "Status / command"				
1.0	1.0			37911	R	7783	Output signal UX22 module 1		0	10 100	V %	1/100
1.0	1.0			37912	R	7783	Status	see section "Status / command"				
1.0	1.0			37913	R	7783	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37914	R/W	7784	Output test UX21 module 2		0	100	%	1
1.0	1.0			37915	R/W	7784	Status/Command	see section "Status / command"				
1.0	1.0			37916	R	7785	Output signal UX21 module 2		0	10 100	V %	1/100
1.0	1.0			37917	R	7785	Status	see section "Status / command"				
1.0	1.0			37918	R	7785	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37919	R/W	7786	Output test UX22 module 2		0	100	%	1
1.0	1.0			37920	R/W	7786	Status/Command	see section "Status / command"				
1.0	1.0			37921	R	7787	Output signal UX22 module 2		0	10 100	V %	1/100
1.0	1.0			37922	R	7787	Status	see section "Status / command"				
1.0	1.0			37923	R	7787	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37924	R/W	7788	Output test UX21 module 3		0	100	%	1
1.0	1.0			37925	R/W	7788	Status/Command	see section "Status / command"				
1.0	1.0			37926	R	7789	Output signal UX21 module 3		0	10 100	V %	1/100
1.0	1.0			37927	R	7789	Status	see section "Status / command"				
1.0	1.0			37928	R	7789	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37929	R/W	7790	Output test UX22 module 3		0	100	%	1
1.0	1.0			37930	R/W	7790	Status/Command	see section "Status / command"				
1.0	1.0			37931	R	7791	Output signal UX22 module 3		0	10 100	V %	1/100
1.0	1.0			37932	R	7791	Status	see section "Status / command"				
1.0	1.0			37933	R	7791	Unit	0..3: reserved 4: Voltage V 5: PWM %	0	5		1/10
1.0	1.0			37934	R/W	7796	Output test WX21 module 1		0	100	%	1
1.0	1.0			37935	R/W	7796	Status/Command	see section "Status / command"				
1.0	1.0			37936	R	7797	Pos step motor WX21 mod 1		0	65535		1
1.0	1.0			37937	R	7797	Status	see section "Status / command"				
1.0	1.0			37938	R/W	7798	Output test WX21 module 2		0	100	%	1
1.0	1.0			37939	R/W	7798	Status/Command	see section "Status / command"				
1.0	1.0			37940	R	7799	Pos step motor WX21 mod 2		0	65535		1
1.0	1.0			37941	R	7799	Status	see section "Status / command"				
1.0	1.0			37942	R/W	7800	Output test WX21 module 3		0	100	%	1
1.0	1.0			37943	R/W	7800	Status/Command	see section "Status / command"				
1.0	1.0			37944	R	7801	Pos step motor WX21 mod 3		0	65535		1
1.0	1.0			37945	R	7801	Status	see section "Status / command"				
1.0	1.0			37946	R/W	7965	Output test WX31		0	100	%	1
1.0	1.0			37947	R/W	7965	Status/Command	see section "Status / command"				
1.0	1.0			37948	R	7966	Pos stepper motor WX31		0	65535		1
1.0	1.0			37949	R	7966	Status	see section "Status / command"				
1.0	1.0			37950	R/W	7705	Mod setp ZX6 relay test		0	100	%	1
1.0	1.0			37951	R	7708	Modulation signal ZX6		0	100	%	1
1.0	1.0			37952	R	7708	Status	see section "Status / command"				
1.0	1.0			37953	R/W	7969	Mod setp ZX34 relay test		0	100	%	1
1.0	1.0			37954	R	7970	Modulation signal ZX34		0	100	%	1
1.0	1.0			37955	R	7970	Status	see section "Status / command"				
1.0	1.0			37956	R/W	7705	Mod setp ZX4 relay test		0	100	%	1
1.0	1.0			37957	R	7708	Modulation signal ZX4		0	100	%	1
1.0	1.0			37958	R	7708	Status	see section "Status / command"				
1.5	1.5	1.0		37959	R	9005	Water pressure 1		-100	500	bar	1/10
1.5	1.5	1.0		37960	R	9005	Status	see section "Status / command"				
1.5	1.5			37961	R	9006	Water pressure 2		-100	500	bar	1/10
1.5	1.5			37962	R	9006	Status	see section "Status / command"				
1.5	1.5			37963	R	9009	Water pressure 3		-100	500	bar	1/10
1.5	1.5			37964	R	9009	Status	see section "Status / command"				
1.5	1.5			37965	R	9016	Special temperature 1		0	140	°C	1/64
1.5	1.5			37966	R	9016	Status	see section "Status / command"				
1.5	1.5			37967	R	9017	Special temperature 2		0	140	°C	1/64
1.5	1.5			37968	R	9017	Status	see section "Status / command"				
1.6	1.6			37969	R	9018	Special temperature 3		0	140	°C	1/64
1.6	1.6			37970	R	9018	Status	see section "Status / command"				
1.6	1.6			37971	R	9019	Special temperature 4		0	140	°C	1/64
1.6	1.6			37972	R	9019	Status	see section "Status / command"				
1.6	1.6			37973	R	9020	Special temperature 5		0	140	°C	1/64
1.6	1.6			37974	R	9020	Status	see section "Status / command"				
1.6	1.6			37975	R	9021	Special temperature 6		0	140	°C	1/64
1.6	1.6			37976	R	9021	Status	see section "Status / command"				
1.6	1.6			37977	R	9022	Special temperature 7		0	140	°C	1/64
1.6	1.6			37978	R	9022	Status	see section "Status / command"				
1.6	1.6			37979	R	9023	Special temperature 8		0	140	°C	1/64
1.6	1.6			37980	R	9023	Status	see section "Status / command"				
			1.0	37981	R		Water pressure					
			1.0	37982	R		Status	see section "Status / command"				
						Device Register reserve						
1.0	1.0			38000	R	7804	Sensor temp BX1		-28	350	°C	1/64
1.0	1.0			38001	R	7804	Status	see section "Status / command"				
1.0	1.0			38002	R	7805	Sensor temp BX2		-28	350	°C	1/64
1.0	1.0			38003	R	7805	Status	see section "Status / command"				
1.0	1.0			38004	R	7806	Sensor temp BX3		-28	350	°C	1/64
1.0	1.0			38005	R	7806	Status	see section "Status / command"				
1.0	1.0			38006	R	7807	Sensor temp BX4		-28	350	°C	1/64

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			38007	R	7807	Status	see section "Status / command"				
1.0	1.0			38008	R	7808	Sensor temp BX5		-28	350	°C	1/64
1.0	1.0			38009	R	7808	Status	see section "Status / command"				
1.0	1.0			38010	R	7809	Sensor temp BX6		-28	350	°C	1/64
1.0	1.0			38011	R	7809	Status	see section "Status / command"				
1.0	1.0			38012	R	7810	Sensor temp BX7		-28	350	°C	1/64
1.0	1.0			38013	R	7810	Status	see section "Status / command"				
1.0	1.0			38014	R	7811	Sensor temp BX8		-28	350	°C	1/64
1.0	1.0			38015	R	7811	Status	see section "Status / command"				
1.0	1.0			38016	R	7812	Sensor temp BX9		-28	350	°C	1/64
1.0	1.0			38017	R	7812	Status	see section "Status / command"				
1.0	1.0			38018	R	7813	Sensor temp BX10		-28	350	°C	1/64
1.0	1.0			38019	R	7813	Status	see section "Status / command"				
1.0	1.0			38020	R	7814	Sensor temp BX11		-28	350	°C	1/64
1.0	1.0			38021	R	7814	Status	see section "Status / command"				
1.0	1.0			38022	R	7815	Sensor temp BX12		-28	350	°C	1/64
1.0	1.0			38023	R	7815	Status	see section "Status / command"				
1.0	1.0			38024	R	7816	Sensor temp BX13		-28	350	°C	1/64
1.0	1.0			38025	R	7816	Status	see section "Status / command"				
1.0	1.0			38026	R	7817	Sensor temp BX14		-28	350	°C	1/64
1.0	1.0			38027	R	7817	Status	see section "Status / command"				
1.0	1.0			38028	R	7830	Sensor temp BX21 module 1		-28	350	°C	1/64
1.0	1.0			38029	R	7830	Status	see section "Status / command"				
1.0	1.0			38030	R	7831	Sensor temp BX22 module 1		-28	350	°C	1/64
1.0	1.0			38031	R	7831	Status	see section "Status / command"				
1.0	1.0			38032	R	7832	Sensor temp BX21 module 2		-28	350	°C	1/64
1.0	1.0			38033	R	7832	Status	see section "Status / command"				
1.0	1.0			38034	R	7833	Sensor temp BX22 module 2		-28	350	°C	1/64
1.0	1.0			38035	R	7833	Status	see section "Status / command"				
1.0	1.0			38036	R	7834	Sensor temp BX21 module 3		-28	350	°C	1/64
1.0	1.0			38037	R	7834	Status	see section "Status / command"				
1.0	1.0			38038	R	7835	Sensor temp BX22 module 3		-28	350	°C	1/64
1.0	1.0			38039	R	7835	Status	see section "Status / command"				
1.0	1.0			38040	R	7973	Sensor temp BX31		-28	350	°C	1/64
1.0	1.0			38041	R	7973	Status	see section "Status / command"				
1.0	1.0			38042	R	7974	Sensor temp BX32		-28	350	°C	1/64
1.0	1.0			38043	R	7974	Status	see section "Status / command"				
1.0	1.0			38044	R	7975	Sensor temp BX33		-28	350	°C	1/64
1.0	1.0			38045	R	7975	Status	see section "Status / command"				
1.0	1.0			38046	R	7976	Sensor temp BX34		-28	350	°C	1/64
1.0	1.0			38047	R	7976	Status	see section "Status / command"				
1.0	1.0			38048	R	7977	Sensor temp BX35		-28	350	°C	1/64
1.0	1.0			38049	R	7977	Status	see section "Status / command"				
1.0	1.0			38050	R	7978	Sensor temp BX36		-28	350	°C	1/64
1.0	1.0			38051	R	7978	Status	see section "Status / command"				
						Device Register reserve						
1.0	1.0			38100	R	7844	Input signal H1		0	2^32		1/10
1.0	1.0			38101				(32 Bit Data)				
1.0	1.0			38102	R	7844	Status	see section "Status / command"				
1.0	1.0			38103	R	7844	Unit	x 0: None 1: Closed (ooo), Open (---) 2: Pulse 3: Frequency Hz 4: Voltage V	0	4		1/10
1.0	1.0			38104	R	7845	Input signal H2 module 1		0	2^32		1/10
1.0	1.0			38105				(32 Bit Data)				
1.0	1.0			38106	R	7845	Status	see section "Status / command"				
1.0	1.0			38107	R	7845	Unit	x 0: None ... 4: Voltage V	0	4		1/10
1.0	1.0			38108	R	7845	Input signal H21 module 1		0	2^32		1/10
1.0	1.0			38109				(32 Bit Data)				
1.0	1.0			38110	R	7845	Status	see section "Status / command"				
1.0	1.0			38111	R	7845	Unit	x 0: None ... 4: Voltage V	0	4		1/10
1.0	1.0			38112	R	7846	Input signal H22 module 1		0	2^32		1/10
1.0	1.0			38113				(32 Bit Data)				
1.0	1.0			38114	R	7846	Status	see section "Status / command"				
1.0	1.0			38115	R	7846	Unit	x 0: None ... 4: Voltage V	0	4		1/10
1.0	1.0			38116	R	7847	Input signal H2 module 2		0	2^32		1
1.0	1.0			38117				(32 Bit Data)				
1.0	1.0			38118	R	7847	Status	see section "Status / command"				
1.0	1.0			38119	R	7847	Unit	x 0: None ... 4: Voltage V	0	4		1
1.0	1.0			38120	R	7847	Input signal H21 module 2		0	2^32		1
1.0	1.0			38121				(32 Bit Data)				
1.0	1.0			38122	R	7847	Status	see section "Status / command"				
1.0	1.0			38123	R	7847	Unit	x 0: None ... 4: Voltage V	0	4		1
1.0	1.0			38124	R	7848	Input signal H22 module 2		0	2^32	V	1/10
1.0	1.0			38125				(32 Bit Data)				
1.0	1.0			38126	R	7848	Status	see section "Status / command"				
1.0	1.0			38127	R	7848	Unit	x 0: None ... 4: Voltage V	0	4	V	1/10
1.0	1.0			38128	R	7849	Input signal H2 module 3		0	2^32		1
1.0	1.0			38129				(32 Bit Data)				
1.0	1.0			38130	R	7849	Status	see section "Status / command"				
1.0	1.0			38131	R	7849	Unit	x 0: None ... 4: Voltage V	0	4		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			38132	R	7849	Input signal H21 module 3		0	2^32		1
1.0	1.0			38133				(32 Bit Data)				
1.0	1.0			38134	R	7849	Status	see section "Status / command"				
1.0	1.0			38135	R	7849	Unit	x 0: None ... 4: Voltage V	0	4		1
1.0	1.0			38136	R	7850	Input signal H22 module 3		0	2^32	Hz	1/10
1.0	1.0			38137				(32 Bit Data)				
1.0	1.0			38138	R	7850	Status	see section "Status / command"				
1.0	1.0			38139	R	7850	Unit	x 0: None ... 4: Voltage V	0	4	Hz	1/10
1.0	1.0			38140	R	7858	Input signal H3		0	2^32		1/10
1.0	1.0			38141				(32 Bit Data)				
1.0	1.0			38142	R	7858	Status	see section "Status / command"				
1.0	1.0			38143	R	7858	Unit	x 0: None ... 4: Voltage V	0	4		1/10
1.0	1.0			38144	R	7989	Input signal H31		0	2^32		1/10
1.0	1.0			38145				(32 Bit Data)				
1.0	1.0			38146	R	7989	Status	see section "Status / command"				
1.0	1.0			38147	R	7989	Unit	x 0: None ... 4: Voltage V	0	4		1/10
1.0	1.0			38148	R	7994	Input signal H32		0	2^32		1/10
1.0	1.0			38149				(32 Bit Data)				
1.0	1.0			38150	R	7994	Status	see section "Status / command"				
1.0	1.0			38151	R	7994	Unit	x 0: None ... 4: Voltage V	0	4		1/10
1.0	1.0			38152	R	7999	Input signal H33		0	2^32		1/10
1.0	1.0			38153				(32 Bit Data)				
1.0	1.0			38154	R	7999	Status	see section "Status / command"				
1.0	1.0			38155	R	7999	Unit	x 0: None ... 4: Voltage V	0	4		1/10
1.0	1.0			38156	R	7728	Defrosting DI6	x 0: Off 1: On	0	1		1
1.0	1.0			38157	R	7728	Status/Command	see section "Status / command"				
1.0	1.0			38158	R	7729	Error/alarm message DI7	x 0: Off 1: On	0	255		1
1.0	1.0			38159	R	7729	Status/Command	see section "Status / command"				
1.0	1.0			38160	R	7911	Input EX1	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38161	R	7911	Status/Command	see section "Status / command"				
1.0	1.0			38162	R	7912	Input EX2	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38163	R	7912	Status/Command	see section "Status / command"				
1.0	1.0			38164	R	7913	Input EX3	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38165	R	7913	Status/Command	see section "Status / command"				
1.0	1.0			38166	R	7914	Input EX4	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38167	R	7914	Status/Command	see section "Status / command"				
1.0	1.0			38168	R	7915	Input EX5	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38169	R	7915	Status/Command	see section "Status / command"				
1.0	1.0			38170	R	7916	Input EX6	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38171	R	7916	Status/Command	see section "Status / command"				
1.0	1.0			38172	R	7917	Input EX7	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38173	R	7917	Status/Command	see section "Status / command"				
1.0	1.0			38174	R	7919	Input EX9	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38175	R	7919	Status/Command	see section "Status / command"				
1.0	1.0			38176	R	7945	Input EX10	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38177	R	7945	Status/Command	see section "Status / command"				
1.0	1.0			38178	R	7946	Input EX11	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38179	R	7946	Status/Command	see section "Status / command"				
1.0	1.0			38180	R	7950	Input EX21 module 1	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38181	R	7950	Status/Command	see section "Status / command"				
1.0	1.0			38182	R	7951	Input EX21 module 2	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38183	R	7951	Status/Command	see section "Status / command"				
1.0	1.0			38184	R	7952	Input EX21 module 3	x 0: 0V 1: 230V	0	1		1
1.0	1.0			38185	R	7952	Status/Command	see section "Status / command"				
Device Register reserve												
1.0	1.0			38400	R	7721	Heating mode D1	x 0: Off 1: On	0	1		1
1.0	1.0			38401	R	7721	Status	see section "Status command"				
1.0	1.0			38402	R	7722	Cooling mode D2	x 0: Off 1: On	0	1		1
1.0	1.0			38403	R	7722	Status	see section "Status command"				
1.0	1.0			38404	R	7723	Heat pump D3	x 0: Off 1: On	0	1		1
1.0	1.0			38405	R	7723	Status	see section "Status / command"				
1.0	1.0			38406	R	9031	Relay output QX1	x 0: Off 1: On	0	1		1
1.0	1.0			38407	R	9031	Status	see section "Status / command"				
1.0	1.0			38408	R	9032	Relay output QX2	x 0: Off 1: On	0	1		1
1.0	1.0			38409	R	9032	Status	see section "Status / command"				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			38410	R	9033	Relay output QX3	x 0: Off 1: On	0	1		1
1.0	1.0			38411	R	9033	Status	see section "Status / command"				
1.0	1.0			38412	R	9034	Triac output ZX4/Relay output QX4	x 0: Off 1: On	0	1		1
1.0	1.0			38413	R	9034	Status	see section "Status / command"				
1.0	1.0			38414	R	9035	Relay output QX5	x 0: Off 1: On	0	1		1
1.0	1.0			38415	R	9035	Status	see section "Status / command"				
1.0	1.0			38416	R	9036	Triac output ZX6 / Relay output QX6	x 0: Off 1: On	0	1		1
1.0	1.0			38417	R	9036	Status	see section "Status / command"				
1.0	1.0			38418	R	9037	Relay output QX7	x 0: Off 1: On	0	1		1
1.0	1.0			38419	R	9037	Status	see section "Status / command"				
1.0	1.0			38420	R	9038	Relay output QX8	x 0: Off 1: On	0	1		1
1.0	1.0			38421	R	9038	Status	see section "Status / command"				
1.0	1.0			38422	R	9039	Relay output QX9	x 0: Off 1: On	0	1		1
1.0	1.0			38423	R	9039	Status	see section "Status / command"				
1.0	1.0			38424	R	9040	Relay output QX10	x 0: Off 1: On	0	1		1
1.0	1.0			38425	R	9040	Status	see section "Status / command"				
1.0	1.0			38426	R	9041	Relay output QX11	x 0: Off 1: On	0	1		1
1.0	1.0			38427	R	9041	Status	see section "Status / command"				
1.0	1.0			38428	R	9042	Relay output QX12	x 0: Off 1: On	0	1		1
1.0	1.0			38429	R	9042	Status	see section "Status / command"				
1.0	1.0			38430	R	9043	Relay output QX13	x 0: Off 1: On	0	1		1
1.0	1.0			38431	R	9043	Status	see section "Status / command"				
1.0	1.0			38432	R	9050	Relay output QX21 module 1	x 0: Off 1: On	0	1		1
1.0	1.0			38433	R	9050	Status	see section "Status / command"				
1.0	1.0			38434	R	9051	Relay output QX22 module 1	x 0: Off 1: On	0	1		1
1.0	1.0			38435	R	9051	Status	see section "Status / command"				
1.0	1.0			38436	R	9052	Relay output QX23 module 1	x 0: Off 1: On	0	1		1
1.0	1.0			38437	R	9052	Status	see section "Status / command"				
1.0	1.0			38438	R	9053	Relay output QX21 module 2	x 0: Off 1: On	0	1		1
1.0	1.0			38439	R	9053	Status	see section "Status / command"				
1.0	1.0			38440	R	9054	Relay output QX22 module 2	x 0: Off 1: On	0	1		1
1.0	1.0			38441	R	9054	Status	see section "Status / command"				
1.0	1.0			38442	R	9055	Relay output QX23 module 2	x 0: Off 1: On	0	1		1
1.0	1.0			38443	R	9055	Status	see section "Status / command"				
1.0	1.0			38444	R	9056	Relay output QX21 module 3	x 0: Off 1: On	0	1		1
1.0	1.0			38445	R	9056	Status	see section "Status / command"				
1.0	1.0			38446	R	9057	Relay output QX22 module 3	x 0: Off 1: On	0	1		1
1.0	1.0			38447	R	9057	Status	see section "Status / command"				
1.0	1.0			38448	R	9058	Relay output QX23 module 3	x 0: Off 1: On	0	1		1
1.0	1.0			38449	R	9058	Status	see section "Status / command"				
1.0	1.0			38450	R	9071	Relay output QX31	x 0: Off 1: On	0	1		1
1.0	1.0			38451	R	9071	Status	see section "Status / command"				
1.0	1.0			38452	R	9072	Relay output QX32	x 0: Off 1: On	0	1		1
1.0	1.0			38453	R	9072	Status	see section "Status / command"				
1.0	1.0			38454	R	9073	Relay output QX33	x 0: Off 1: On	0	1		1
1.0	1.0			38455	R	9073	Status	see section "Status / command"				
1.0	1.0			38456	R	9074	Triac output ZX34 / Relay output QX34	x 0: Off 1: On	0	1		1
1.0	1.0			38457	R	9074	Status	see section "Status / command"				
1.0	1.0			38458	R	9075	Relay output QX35	x 0: Off 1: On	0	1		1
1.0	1.0			38459	R	9075	Status	see section "Status / command"				
						Device Register reserve						
1.0	1.0			38600	R	6586	Partial diagram heat pump		0	255		1
1.0	1.0			38601	R	6590	Partial diagram solar collector		0	255		1
1.0	1.0			38602	R	6593	Partial diagram dhw storage		0	255		1
1.0	1.0			38603	R	6592	Partial diagram buffer		0	255		1
1.0	1.0			38604	R	6570	Partial diagram heat circuit 1		0	255		1
1.0	1.0			38605	R	6571	Partial diagram cooling circuit 1		0	255		1
1.0	1.0			38606	R	6572	Partial diagram heat circuit 2		0	255		1
1.0	1.0			38607	R	6573	Partial diagram cooling circuit 2		0	255		1
1.0	1.0			38608	R	6574	Partial diagram heat circuit 2		0	255		1
1.0	1.0			38609	R	6575	Partial diagram cooling circuit 3		0	255		1
1.0	1.0			38610	R	6583	Partial diagram converter		0	255		1
1.0	1.0			38611	R	6591	Partial diagram solid fuel boiler		0	255		1
1.0	1.0			38612	R	6582	Partial diagram swimming pool		0	255		1
1.0	1.0			38613	R	6588	Partial diagram hydraulic balancing		0	255		1
1.0	1.0			38614	R	6594	Partial diagram instantaneous heater		0	255		1
1.0	1.0			38615	R	6579	Partial diagram Consumer circuit 1		0	255		1
1.0	1.0			38616	R	6580	Partial diagram Consumer circuit 2		0	255		1
1.0	1.0			38617	R	6581	Partial diagram Consumer circuit 3		0	255		1
1.0	1.0			38618	R	6589	Cascade status	0: Inactiv 1: Active	0	255		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			38619	R	6587	Partial diagram suppl source		0	255		1
1.5	1.5			38620	R	6576	Partial diagram ventilation 1		0	255		1
1.5	1.5			38621	R	6577	Partial diagram ventilation 2		0	255		1
1.5	1.5			38622	R	6578	Partial diagram ventilation 3		0	255		1
1.5	1.5			38623	R	6584	Partial diagram converter 2		0	255		1
1.5	1.5			38624	R		LPB interface available	0: No x 1: Yes	0	1		1
1.5	1.5			38625	R		Modbus interface available	0: No x 1: Yes	0	1		1
				0x9800..0x9BEF		**Device block 2**						
1.0	1.0			38912	R	6220	Software version		0.0	99		1/10
1.0	1.0			38913	R	6221	Development index		0	65535		1
1.0	1.0			38914	R		Modbus Object List Version		0.0	65535		1/10
1.0	1.0			38915	R	6222	Device hours run		0	199'999	h	1/3600
1.0	1.0			38916				(32 Bit Data)				
1.5	1.5			38917	R	6228	Bootloader version		0	65535		1/10
1.5	1.5			38918	R	6229	Eeprom version		0	65535		1/10
		1.0	1.0	38919	R	6227	Geräte-OV-Version		0	9999		1
			1.0	38920	R	6232	Parameter version		0	65535		1
						Device Register reserve						
1.0	1.0			38928	R	6800	History 1	Year	100	199	Year	1
1.0	1.0			38929	R	6800		Month	1	12	Month	1
1.0	1.0			38930	R	6800		Day	1	31	Day	1
1.0	1.0			38931	R	6800		Hour	0	23	h	1
1.0	1.0			38932	R	6800		Minute	0	59	m	1
1.0	1.0			38933	R	6800	Status	see section "Status / command"				
1.0	1.0			38934	R	6801	Error code 1	Error codes: see controller manual	0	65535		1
1.0	1.0			38935	R	6801	Status	see section "Status / command"				
1.0	1.0			38936	R	6802	History 2	Year	100	199	Year	1
1.0	1.0			38937	R	6802		Month	1	12	Month	1
1.0	1.0			38938	R	6802		Day	1	31	Day	1
1.0	1.0			38939	R	6802		Hour	0	23	h	1
1.0	1.0			38940	R	6802		Minute	0	59	m	1
1.0	1.0			38941	R	6802	Status	see section "Status / command"				
1.0	1.0			38942	R	6803	Error code 2	Error codes: see controller manual	0	65535		1
1.0	1.0			38943	R	6803	Status	see section "Status / command"				
1.0	1.0			38944	R	6804	History 3	Year	100	199	Year	1
1.0	1.0			38945	R	6804		Month	1	12	Month	1
1.0	1.0			38946	R	6804		Day	1	31	Day	1
1.0	1.0			38947	R	6804		Hour	0	23	h	1
1.0	1.0			38948	R	6804		Minute	0	59	m	1
1.0	1.0			38949	R	6804	Status	see section "Status / command"				
1.0	1.0			38950	R	6805	Error code 3	Error codes: see controller manual	0	65535		1
1.0	1.0			38951	R	6805	Status	see section "Status / command"				
1.0	1.0			38952	R	6806	History 4	Year	100	199	Year	1
1.0	1.0			38953	R	6806		Month	1	12	Month	1
1.0	1.0			38954	R	6806		Day	1	31	Day	1
1.0	1.0			38955	R	6806		Hour	0	23	h	1
1.0	1.0			38956	R	6806		Minute	0	59	m	1
1.0	1.0			38957	R	6806	Status	see section "Status / command"				
1.0	1.0			38958	R	6807	Error code 4	Error codes: see controller manual	0	65535		1
1.0	1.0			38959	R	6807	Status	see section "Status / command"				
1.0	1.0			38960	R	6808	History 5	Year	100	199	Year	1
1.0	1.0			38961	R	6808		Month	1	12	Month	1
1.0	1.0			38962	R	6808		Day	1	31	Day	1
1.0	1.0			38963	R	6808		Hour	0	23	h	1
1.0	1.0			38964	R	6808		Minute	0	59	m	1
1.0	1.0			38965	R	6808	Status	see section "Status / command"				
1.0	1.0			38966	R	6809	Error code 5	Error codes: see controller manual	0	65535		1
1.0	1.0			38967	R	6809	Status	see section "Status / command"				
1.0	1.0			38968	R	6810	History 6	Year	100	199	Year	1
1.0	1.0			38969	R	6810		Month	1	12	Month	1
1.0	1.0			38970	R	6810		Day	1	31	Day	1
1.0	1.0			38971	R	6810		Hour	0	23	h	1
1.0	1.0			38972	R	6810		Minute	0	59	m	1
1.0	1.0			38973	R	6810	Status	see section "Status / command"				
1.0	1.0			38974	R	6811	Error code 6	Error codes: see controller manual	0	65535		1
1.0	1.0			38975	R	6811	Status	see section "Status / command"				
1.0	1.0			38976	R	6812	History 7	Year	100	199	Year	1
1.0	1.0			38977	R	6812		Month	1	12	Month	1
1.0	1.0			38978	R	6812		Day	1	31	Day	1
1.0	1.0			38979	R	6812		Hour	0	23	h	1
1.0	1.0			38980	R	6812		Minute	0	59	m	1
1.0	1.0			38981	R	6812	Status	see section "Status / command"				
1.0	1.0			38982	R	6813	Error code 7	Error codes: see controller manual	0	65535		1
1.0	1.0			38983	R	6813	Status	see section "Status / command"				
1.0	1.0			38984	R	6814	History 8	Year	100	199	Year	1
1.0	1.0			38985	R	6814		Month	1	12	Month	1
1.0	1.0			38986	R	6814		Day	1	31	Day	1
1.0	1.0			38987	R	6814		Hour	0	23	h	1
1.0	1.0			38988	R	6814		Minute	0	59	m	1
1.0	1.0			38989	R	6814	Status	see section "Status / command"				
1.0	1.0			38990	R	6815	Error code 8	Error codes: see controller manual	0	65535		1
1.0	1.0			38991	R	6815	Status	see section "Status / command"				
1.0	1.0			38992	R	6816	History 9	Year	100	199	Year	1
1.0	1.0			38993	R	6816		Month	1	12	Month	1
1.0	1.0			38994	R	6816		Day	1	31	Day	1
1.0	1.0			38995	R	6816		Hour	0	23	h	1
1.0	1.0			38996	R	6816		Minute	0	59	m	1
1.0	1.0			38997	R	6816	Status	see section "Status / command"				
1.0	1.0			38998	R	6817	Error code 9	Error codes: see controller manual	0	65535		1
1.0	1.0			38999	R	6817	Status	see section "Status / command"				
1.0	1.0			39000	R	6818	History 10	Year	100	199	Year	1
1.0	1.0			39001	R	6818		Month	1	12	Month	1
1.0	1.0			39002	R	6818		Day	1	31	Day	1
1.0	1.0			39003	R	6818		Hour	0	23	h	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			39004	R	6818		Minute	0	59	m	1
1.0	1.0			39005	R	6818	Status	see section "Status / command"				
1.0	1.0			39006	R	6819	Error code 10	Error codes: see controller manual	0	65535		1
1.0	1.0			39007	R	6819	Status	see section "Status / command"				
1.0	1.0			39008	R/W	6820	Reset history	x 0: No 1: Yes	0	1		1
						Fehler/Wartung/Info						
1.0	1.0			39040	R	6700	Error Message	Error codes: see controller manual	0	65535		1
1.0	1.0			39041	R		Error Prio	priority	0	65535		
1.0	1.0			39042	R		Service Message	ServiceCode	0	65535		
1.0	1.0			39043	R		Error Prio	priority	0	65535		
1.0	1.0			39044	R		Info Sonderbetrieb	Bit7: Special opreration active Bit0..6: Special operation: 0= Normal (no special opreration) 1= Manual operation 2= SLT test 3= Chimney sweep function 4= Controller stop 5= Combustion optimization low-fire 6= Combustion optimization high-fire 7= Emergency operation 8= Output test 9= Simulation outside temp 10= Alternative energy mode 11= Commissioning function 12= Deareation function 13= Dry fire function 14= Eco opertation 15= Initializing 16= DHW Push	0	255		
1.5	1.5			39045	R		Responsibility for message	x 0: No display of responsibility 1: Only display phone no 2: Service 3: Customer service 4: Installer 5: Janitor 6: Administration 7: Refrigeration engineer 8: Hotline	0	8		1
1.5	1.5			39046	R		Telephone responsibility for message		0	255		1
1.5	1.5			39047	R				0	255		1
1.5	1.5			39048	R				0	255		1
1.5	1.5			39049	R				0	255		1
1.5	1.5			39050	R				0	255		1
1.5	1.5			39051	R				0	255		1
1.5	1.5			39052	R				0	255		1
1.5	1.5			39053	R				0	255		1
1.5	1.5			39054	R				0	255		1
1.5	1.5			39055	R				0	255		1
1.5	1.5			39056	R				0	255		1
1.5	1.5			39057	R				0	255		1
1.5	1.5			39058	R				0	255		1
1.5	1.5			39059	R				0	255		1
1.5	1.5			39060	R				0	255		1
1.5	1.5			39061	R				0	255		1
1.5	1.5			39062	R		Responsibility for message	x 0: No display of responsibility 1: Only display phone no 2: Service 3: Customer service 4: Installer 5: Janitor 6: Administration 7: Refrigeration engineer 8: Hotline	0	8		1
1.5	1.5			39063	R		Telephone responsibility for message		0	255		1
1.5	1.5			39064	R				0	255		1
1.5	1.5			39065	R				0	255		1
1.5	1.5			39066	R				0	255		1
1.5	1.5			39067	R				0	255		1
1.5	1.5			39068	R				0	255		1
1.5	1.5			39069	R				0	255		1
1.5	1.5			39070	R				0	255		1
1.5	1.5			39071	R				0	255		1
1.5	1.5			39072	R				0	255		1
1.5	1.5			39073	R				0	255		1
1.5	1.5			39074	R				0	255		1
1.5	1.5			39075	R				0	255		1
1.5	1.5			39076	R				0	255		1
1.5	1.5			39077	R				0	255		1
1.5	1.5			39078	R				0	255		1
		1.0	1.0	39079	R	6700	Error Message	Error codes: see controller manual	0	255		1
		1.0	1.0	39080	R		Error Prio	priority	0	65535		
		1.0	1.0	39081	R		Error Device Adress					
		1.0	1.0	39082	R		Service Message	ServiceCode	0	65535		
		1.0	1.0	39083	R		Service Prio	priority	0	65535		
		1.0	1.0	39084	R		Service Device Adress					
			1.0	39085	R	6705	Internal value of diagnostic code		0	65535		1
			1.0	39086	R	6706	Current value of lockout phase		0	255		1
		1.0	1.0	39087	R		Info Sonderbetrieb	see controller manual	0	255		
		1.0	1.0	39088	R		Status Info					
						Device Register reserve						
1.5	1.5			39100	R	8050	Time stamp status history entry 1	Year	100	199	Year	1
1.5	1.5			39101	R	8050		Month	1	12	Month	1
1.5	1.5			39102	R	8050		Day	1	31	Day	1
1.5	1.5			39103	R	8050		Hour	0	23	h	1
1.5	1.5			39104	R	8050		Minute	0	59	m	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			39105	R	8050	Status	see section "Status / command"				
1.5	1.5			39106	R	8051	Status code history entry 1	StatusCode	0	65535		1
1.5	1.5			39107	R	8051	Status	see section "Status / command"				
1.5	1.5			39108	R	8052	Time stamp status history entry 2	Year	100	199	Year	1
1.5	1.5			39109	R	8052		Month	1	12	Month	1
1.5	1.5			39110	R	8052		Day	1	31	Day	1
1.5	1.5			39111	R	8052		Hour	0	23	h	1
1.5	1.5			39112	R	8052		Minute	0	59	m	1
1.5	1.5			39113	R	8052	Status	see section "Status / command"				
1.5	1.5			39114	R	8053	Status code history entry 2	StatusCode	0	65535		1
1.5	1.5			39115	R	8053	Status	see section "Status / command"				
1.5	1.5			39116	R	8054	Time stamp status history entry 3	Year	100	199	Year	1
1.5	1.5			39117	R	8054		Month	1	12	Month	1
1.5	1.5			39118	R	8054		Day	1	31	Day	1
1.5	1.5			39119	R	8054		Hour	0	23	h	1
1.5	1.5			39120	R	8054		Minute	0	59	m	1
1.5	1.5			39121	R	8054	Status	see section "Status / command"				
1.5	1.5			39122	R	8055	Status code history entry 3	StatusCode	0	65535		1
1.5	1.5			39123	R	8055	Status	see section "Status / command"				
1.5	1.5			39124	R	8056	Time stamp status history entry 4	Year	100	199	Year	1
1.5	1.5			39125	R	8056		Month	1	12	Month	1
1.5	1.5			39126	R	8056		Day	1	31	Day	1
1.5	1.5			39127	R	8056		Hour	0	23	h	1
1.5	1.5			39128	R	8056		Minute	0	59	m	1
1.5	1.5			39129	R	8056	Status	see section "Status / command"				
1.5	1.5			39130	R	8057	Status code history entry 4	StatusCode	0	65535		1
1.5	1.5			39131	R	8057	Status	see section "Status / command"				
1.5	1.5			39132	R	8058	Time stamp status history entry 5	Year	100	199	Year	1
1.5	1.5			39133	R	8058		Month	1	12	Month	1
1.5	1.5			39134	R	8058		Day	1	31	Day	1
1.5	1.5			39135	R	8058		Hour	0	23	h	1
1.5	1.5			39136	R	8058		Minute	0	59	m	1
1.5	1.5			39137	R	8058	Status	see section "Status / command"				
1.5	1.5			39138	R	8059	Status code history entry 5	StatusCode	0	65535		1
1.5	1.5			39139	R	8059	Status	see section "Status / command"				
1.5	1.5			39140	R	8060	Time stamp status history entry 6	Year	100	199	Year	1
1.5	1.5			39141	R	8060		Month	1	12	Month	1
1.5	1.5			39142	R	8060		Day	1	31	Day	1
1.5	1.5			39143	R	8060		Hour	0	23	h	1
1.5	1.5			39144	R	8060		Minute	0	59	m	1
1.5	1.5			39145	R	8060	Status	see section "Status / command"				
1.5	1.5			39146	R	8061	Status code history entry 6	StatusCode	0	65535		1
1.5	1.5			39147	R	8061	Status	see section "Status / command"				
1.5	1.5			39148	R	8062	Time stamp status history entry 7	Year	100	199	Year	1
1.5	1.5			39149	R	8062		Month	1	12	Month	1
1.5	1.5			39150	R	8062		Day	1	31	Day	1
1.5	1.5			39151	R	8062		Hour	0	23	h	1
1.5	1.5			39152	R	8062		Minute	0	59	m	1
1.5	1.5			39153	R	8062	Status	see section "Status / command"				
1.5	1.5			39154	R	8063	Status code history entry 7	StatusCode	0	65535		1
1.5	1.5			39155	R	8063	Status	see section "Status / command"				
1.5	1.5			39156	R	8064	Time stamp status history entry 8	Year	100	199	Year	1
1.5	1.5			39157	R	8064		Month	1	12	Month	1
1.5	1.5			39158	R	8064		Day	1	31	Day	1
1.5	1.5			39159	R	8064		Hour	0	23	h	1
1.5	1.5			39160	R	8064		Minute	0	59	m	1
1.5	1.5			39161	R	8064	Status	see section "Status / command"				
1.5	1.5			39162	R	8065	Status code history entry 8	StatusCode	0	65535		1
1.5	1.5			39163	R	8065	Status	see section "Status / command"				
1.5	1.5			39164	R	8066	Time stamp status history entry 9	Year	100	199	Year	1
1.5	1.5			39165	R	8066		Month	1	12	Month	1
1.5	1.5			39166	R	8066		Day	1	31	Day	1
1.5	1.5			39167	R	8066		Hour	0	23	h	1
1.5	1.5			39168	R	8066		Minute	0	59	m	1
1.5	1.5			39169	R	8066	Status	see section "Status / command"				
1.5	1.5			39170	R	8067	Status code history entry 9	StatusCode	0	65535		1
1.5	1.5			39171	R	8067	Status	see section "Status / command"				
1.5	1.5			39172	R	8068	Time stamp status history entry 10	Year	100	199	Year	1
1.5	1.5			39173	R	8068		Month	1	12	Month	1
1.5	1.5			39174	R	8068		Day	1	31	Day	1
1.5	1.5			39175	R	8068		Hour	0	23	h	1
1.5	1.5			39176	R	8068		Minute	0	59	m	1
1.5	1.5			39177	R	8068	Status	see section "Status / command"				
1.5	1.5			39178	R	8069	Status code history entry 10	StatusCode	0	65535		1
1.5	1.5			39179	R	8069	Status	see section "Status / command"				
1.5	1.5			39180	R/W	8070	Reset history	x 0: No 1: Yes	0	1		1
						Service/special operation						
1.5	1.5			39200	R/W	7167	Commissioning Wizard	0: Off x 1: On	0	1		1
1.5	1.5			39201	R/W	7168	Production test wizard	0: Off x 1: On	0	1		1
1.5	1.5			39202	R/W	7180	Text responsibility 1	x 0: No display of responsibility 1: Only display phone no 2: Service 3: Customer service 4: Installer 5: Janitor 6: Administration 7: Refrigeration engineer 8: Hotline	0	8		1
1.5	1.5			39203	R/W	7181	Telephone responsibility 1		0	255		1
1.5	1.5			39204	R/W				0	255		1
1.5	1.5			39205	R/W				0	255		1
1.5	1.5			39206	R/W				0	255		1
1.5	1.5			39207	R/W				0	255		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			39208	R/W				0	255		1
1.5	1.5			39209	R/W				0	255		1
1.5	1.5			39210	R/W				0	255		1
1.5	1.5			39211	R/W				0	255		1
1.5	1.5			39212	R/W				0	255		1
1.5	1.5			39213	R/W				0	255		1
1.5	1.5			39214	R/W				0	255		1
1.5	1.5			39215	R/W				0	255		1
1.5	1.5			39216	R/W				0	255		1
1.5	1.5			39217	R/W				0	255		1
1.5	1.5			39218	R/W				0	255		1
1.5	1.5			39219	R/W	7182	Text responsibility 2	x 0: No display of responsibility 1: Only display phone no 2: Service 3: Customer service 4: Installer 5: Janitor 6: Administration 7: Refrigeration engineer 8: Hotline	0	8		1
1.5	1.5			39220	R/W	7183	Telephone responsibility 2		0	255		1
1.5	1.5			39221	R/W				0	255		1
1.5	1.5			39222	R/W				0	255		1
1.5	1.5			39223	R/W				0	255		1
1.5	1.5			39224	R/W				0	255		1
1.5	1.5			39225	R/W				0	255		1
1.5	1.5			39226	R/W				0	255		1
1.5	1.5			39227	R/W				0	255		1
1.5	1.5			39228	R/W				0	255		1
1.5	1.5			39229	R/W				0	255		1
1.5	1.5			39230	R/W				0	255		1
1.5	1.5			39231	R/W				0	255		1
1.5	1.5			39232	R/W				0	255		1
1.5	1.5			39233	R/W				0	255		1
1.5	1.5			39234	R/W				0	255		1
1.5	1.5			39235	R/W				0	255		1
1.5	1.5			39236	R/W	7184	Text responsibility 3	x 0: No display of responsibility 1: Only display phone no 2: Service 3: Customer service 4: Installer 5: Janitor 6: Administration 7: Refrigeration engineer 8: Hotline	0	8		1
1.5	1.5			39237	R/W	7185	Telephone responsibility 3		0	255		1
1.5	1.5			39238	R/W				0	255		1
1.5	1.5			39239	R/W				0	255		1
1.5	1.5			39240	R/W				0	255		1
1.5	1.5			39241	R/W				0	255		1
1.5	1.5			39242	R/W				0	255		1
1.5	1.5			39243	R/W				0	255		1
1.5	1.5			39244	R/W				0	255		1
1.5	1.5			39245	R/W				0	255		1
1.5	1.5			39246	R/W				0	255		1
1.5	1.5			39247	R/W				0	255		1
1.5	1.5			39248	R/W				0	255		1
1.5	1.5			39249	R/W				0	255		1
1.5	1.5			39250	R/W				0	255		1
1.5	1.5			39251	R/W				0	255		1
1.5	1.5			39252	R/W				0	255		1
1.5	1.5			39253	R/W	7186	Text responsibility 4	x 0: No display of responsibility 1: Only display phone no 2: Service 3: Customer service 4: Installer 5: Janitor 6: Administration 7: Refrigeration engineer 8: Hotline	0	8		1
1.5	1.5			39254	R/W	7187	Telephone responsibility 4		0	255		1
1.5	1.5			39255	R/W				0	255		1
1.5	1.5			39256	R/W				0	255		1
1.5	1.5			39257	R/W				0	255		1
1.5	1.5			39258	R/W				0	255		1
1.5	1.5			39259	R/W				0	255		1
1.5	1.5			39260	R/W				0	255		1
1.5	1.5			39261	R/W				0	255		1
1.5	1.5			39262	R/W				0	255		1
1.5	1.5			39263	R/W				0	255		1
1.5	1.5			39264	R/W				0	255		1
1.5	1.5			39265	R/W				0	255		1
1.5	1.5			39266	R/W				0	255		1
1.5	1.5			39267	R/W				0	255		1
1.5	1.5			39268	R/W				0	255		1
1.5	1.5			39269	R/W				0	255		1
1.5	1.5			39270	R/W	7188	Text responsibility 5	x 0: No display of responsibility 1: Only display phone no 2: Service 3: Customer service 4: Installer 5: Janitor 6: Administration 7: Refrigeration engineer 8: Hotline	0	8		1
1.5	1.5			39271	R/W	7189	Telephone responsibility 5		0	255		1
1.5	1.5			39272	R/W				0	255		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			39273	R/W				0	255		1
1.5	1.5			39274	R/W				0	255		1
1.5	1.5			39275	R/W				0	255		1
1.5	1.5			39276	R/W				0	255		1
1.5	1.5			39277	R/W				0	255		1
1.5	1.5			39278	R/W				0	255		1
1.5	1.5			39279	R/W				0	255		1
1.5	1.5			39280	R/W				0	255		1
1.5	1.5			39281	R/W				0	255		1
1.5	1.5			39282	R/W				0	255		1
1.5	1.5			39283	R/W				0	255		1
1.5	1.5			39284	R/W				0	255		1
1.5	1.5			39285	R/W				0	255		1
1.5	1.5			39286	R/W				0	255		1
				0x9BF0..0x9FFF		**Device block 3**						
1.0	1.0	1.0	1.0	39920	R/W		Clock time and Date	Year	100	199	Year	1
1.0	1.0	1.0	1.0	39921	R/W		Clock time and Date	Month	1	12	Month	1
1.0	1.0	1.0	1.0	39922	R/W		Clock time and Date	Day	1	31	Day	1
1.0	1.0	1.0	1.0	39923	R/W		Clock time and Date	Hour	0	23	h	1
1.0	1.0	1.0	1.0	39924	R/W		Clock time and Date	Minute	0	59	min	1
1.0	1.0	1.0	1.0	39925	R/W		Clock time and Date	Second	0	59	s	1
1.5	1.5	1.0	1.0	39926	R/W		Clock time and Date	Day of week	1	7	Day	1
1.5	1.5	1.0		39927	R/W	5	Start of summertime		1	12	Month	1
1.5	1.5	1.0		39928	R/W	5	Start of summertime		1	31	Day	1
1.5	1.5	1.0		39929	R/W	6	End of summertime		1	12	Month	1
1.5	1.5	1.0		39930	R/W	6	End of summertime		1	31	Day	1
						Time prog heating circuit 1						
1.0	1.0	1.0		39940	R/W	501, 502	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39941	R/W	503, 504	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39942	R/W	505, 506	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39943	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39944	R/W	501, 502	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39945	R/W	503, 504	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39946	R/W	505, 506	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39947	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39948	R/W	501, 502	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39949	R/W	503, 504	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39950	R/W	505, 506	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39951	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39952	R/W	501, 502	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39953	R/W	503, 504	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39954	R/W	505, 506	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39955	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39956	R/W	501, 502	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39957	R/W	503, 504	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39958	R/W	505, 506	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39959	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39960	R/W	501, 502	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39961	R/W	503, 504	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0	1.0		39962	R/W	505, 506	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39963	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39964	R/W	501, 502	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39965	R/W	503, 504	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39966	R/W	505, 506	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39967	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39968	R/W	516	Default values	x 0: No 1: Yes	0	1		1
							Time prog heating circuit 2					
1.0	1.0	1.0		39980	R/W	521, 522	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39981	R/W	523, 524	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39982	R/W	525, 526	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39983	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39984	R/W	521, 522	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39985	R/W	523, 524	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39986	R/W	525, 526	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39987	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39988	R/W	521, 522	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39989	R/W	523, 524	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39990	R/W	525, 526	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39991	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39992	R/W	521, 522	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39993	R/W	523, 524	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39994	R/W	525, 526	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39995	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		39996	R/W	521, 522	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39997	R/W	523, 524	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39998	R/W	525, 526	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		39999	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40000	R/W	521, 522	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40001	R/W	523, 524	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40002	R/W	525, 526	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0	1.0		40003	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40004	R/W	521, 522	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40005	R/W	523, 524	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40006	R/W	525, 526	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40007	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40008	R/W	536	Default values	x 0: No 1: Yes	0	1		1
						Time program 3/HC3						
1.0	1.0			40040	R/W	541, 542	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40041	R/W	543, 544	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40042	R/W	545, 546	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40043	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0			40044	R/W	541, 542	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40045	R/W	543, 544	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40046	R/W	545, 546	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40047	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0			40048	R/W	541, 542	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40049	R/W	543, 544	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40050	R/W	545, 546	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40051	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0			40052	R/W	541, 542	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40053	R/W	543, 544	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40054	R/W	545, 546	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40055	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0			40056	R/W	541, 542	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40057	R/W	543, 544	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40058	R/W	545, 546	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40059	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0			40060	R/W	541, 542	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40061	R/W	543, 544	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40062	R/W	545, 546	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			40063	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0			40064	R/W	541, 542	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40065	R/W	543, 544	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40066	R/W	545, 546	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0						Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0			40067	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0			40068	R/W	556	Default values	x 0: No 1: Yes	0	1		1
							Time program 4 / DHW					
1.0	1.0	1.0		40080	R/W	561, 562	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40081	R/W	563, 564	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40082	R/W	565, 566	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40083	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40084	R/W	561, 562	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40085	R/W	563, 564	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40086	R/W	565, 566	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40087	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40088	R/W	561, 562	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40089	R/W	563, 564	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40090	R/W	565, 566	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40091	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40092	R/W	561, 562	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40093	R/W	563, 564	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40094	R/W	565, 566	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40095	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40096	R/W	561, 562	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40097	R/W	563, 564	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40098	R/W	565, 566	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40099	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40100	R/W	561, 562	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40101	R/W	563, 564	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40102	R/W	565, 566	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0	1.0		40103	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40104	R/W	561, 562	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40105	R/W	563, 564	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40106	R/W	565, 566	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40107	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40108	R/W	576	Default values	x 0: No 1: Yes	0	1		1
						Time program 5						
1.0	1.0	1.0		40140	R/W	601, 602	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40141	R/W	603, 604	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40142	R/W	605, 606	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40143	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40144	R/W	601, 602	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40145	R/W	603, 604	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40146	R/W	605, 606	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40147	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40148	R/W	601, 602	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40149	R/W	603, 604	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40150	R/W	605, 606	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40151	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40152	R/W	601, 602	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40153	R/W	603, 604	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40154	R/W	605, 606	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40155	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40156	R/W	601, 602	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40157	R/W	603, 604	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40158	R/W	605, 606	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40159	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40160	R/W	601, 602	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40161	R/W	603, 604	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40162	R/W	605, 606	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0	1.0		40163	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40164	R/W	601, 602	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40165	R/W	603, 604	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40166	R/W	605, 606	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.0	1.0	1.0					Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.0	1.0	1.0		40167	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.0	1.0	1.0		40168	R/W	616	Default values	x 0: No 1: Yes	0	1		1
						Time prog cooling circuit 1						
1.6	1.6			40180	R/W	471, 472	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40181	R/W	473, 474	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40182	R/W	475, 476	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40183	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40184	R/W	471, 472	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40185	R/W	473, 474	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40186	R/W	475, 476	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40187	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40188	R/W	471, 472	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40189	R/W	473, 474	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40190	R/W	475, 476	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40191	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40192	R/W	471, 472	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40193	R/W	473, 474	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40194	R/W	475, 476	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40195	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40196	R/W	471, 472	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40197	R/W	473, 474	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40198	R/W	475, 476	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40199	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40200	R/W	471, 472	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40201	R/W	473, 474	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40202	R/W	475, 476	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.6	1.6			40203	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40204	R/W	471, 472	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40205	R/W	473, 474	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40206	R/W	475, 476	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40207	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40208	R/W	479	Default values	x 0: No 1: Yes	0	1		1
						Time prog cooling circuit 2						
1.6	1.6			40240	R/W	481, 482	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40241	R/W	483, 484	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40242	R/W	485, 486	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40243	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40244	R/W	481, 482	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40245	R/W	483, 484	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40246	R/W	485, 486	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40247	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40248	R/W	481, 482	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40249	R/W	483, 484	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40250	R/W	485, 486	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40251	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40252	R/W	481, 482	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40253	R/W	483, 484	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40254	R/W	485, 486	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40255	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40256	R/W	481, 482	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40257	R/W	483, 484	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40258	R/W	485, 486	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40259	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40260	R/W	481, 482	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40261	R/W	483, 484	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40262	R/W	485, 486	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.6	1.6			40263	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40264	R/W	481, 482	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40265	R/W	483, 484	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40266	R/W	485, 486	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40267	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40268	R/W	489	Default values	x 0: No 1: Yes	0	1		1
							Time prog cooling circuit 3					
1.6	1.6			40280	R/W	491, 492	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40281	R/W	493, 494	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40282	R/W	495, 496	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40283	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40284	R/W	491, 492	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40285	R/W	493, 494	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40286	R/W	495, 496	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40287	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40288	R/W	491, 492	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40289	R/W	493, 494	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40290	R/W	495, 496	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40291	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40292	R/W	491, 492	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40293	R/W	493, 494	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40294	R/W	495, 496	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40295	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40296	R/W	491, 492	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40297	R/W	493, 494	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40298	R/W	495, 496	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40299	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40300	R/W	491, 492	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40301	R/W	493, 494	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40302	R/W	495, 496	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.6	1.6			40303	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40304	R/W	491, 492	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40305	R/W	493, 494	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40306	R/W	495, 496	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.6	1.6						Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.6	1.6			40307	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.6	1.6			40308	R/W	499	Default values	x 0: No 1: Yes	0	1		1
						Holidays heating circuit 1						
1.0	1.0			40400	R/W	642	Holidays Start 1	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40401	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40402	R/W	643	Holidays Ende 1	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40403	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40404	R/W	642	Holidays Start 2	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40405	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40406	R/W	643	Holidays Ende 2	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40407	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40408	R/W	642	Holidays Start 3	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40409	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40410	R/W	643	Holidays Ende 3	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40411	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40412	R/W	642	Holidays Start 4	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40413	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40414	R/W	643	Holidays Ende 4	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40415	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40416	R/W	642	Holidays Start 5	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40417	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40418	R/W	643	Holidays Ende 5	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40419	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40420	R/W	642	Holidays Start 6	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40421	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40422	R/W	643	Holidays Ende 6	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40423	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40424	R/W	642	Holidays Start 7	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40425	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40426	R/W	643	Holidays Ende 7	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40427	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40428	R/W	642	Holidays Start 8	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40429	R/W	642	Status/Command	see section "Status / command"				
1.0	1.0			40430	R/W	643	Holidays Ende 8	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40431	R/W	643	Status/Command	see section "Status / command"				
1.0	1.0			40432	R/W	648	Holidays Operating level	x 0: Frost protection 1: Reduced	0	1		1
						Holidays heating circuit 2						
1.0	1.0			40440	R/W	652	Holidays Start 1	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40441	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40442	R/W	653	Holidays Ende 1	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40443	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40444	R/W	652	Holidays Start 2	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40445	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40446	R/W	653	Holidays Ende 2	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40447	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40448	R/W	652	Holidays Start 3	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40449	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40450	R/W	653	Holidays Ende 3	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40451	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40452	R/W	652	Holidays Start 4	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40453	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40454	R/W	653	Holidays Ende 4	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.0	1.0			40455	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40456	R/W	652	Holidays Start 5	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40457	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40458	R/W	653	Holidays Ende 5	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40459	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40460	R/W	652	Holidays Start 6	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40461	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40462	R/W	653	Holidays Ende 6	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40463	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40464	R/W	652	Holidays Start 7	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40465	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40466	R/W	653	Holidays Ende 7	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40467	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40468	R/W	652	Holidays Start 8	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40469	R/W	652	Status/Command	see section "Status / command"				
1.0	1.0			40470	R/W	653	Holidays Ende 8	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40471	R/W	653	Status/Command	see section "Status / command"				
1.0	1.0			40472	R/W	658	Holidays Operating level	x 0: Frost protection 1: Reduced	0	1		1
						Holidays heating circuit 3						
1.0	1.0			40480	R/W	662	Holidays Start 1	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40481	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40482	R/W	663	Holidays Ende 1	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40483	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40484	R/W	662	Holidays Start 2	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40485	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40486	R/W	663	Holidays Ende 2	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40487	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40488	R/W	662	Holidays Start 3	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40489	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40490	R/W	663	Holidays Ende 3	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40491	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40492	R/W	662	Holidays Start 4	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40493	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40494	R/W	663	Holidays Ende 4	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40495	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40496	R/W	662	Holidays Start 5	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40497	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40498	R/W	663	Holidays Ende 5	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40499	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40500	R/W	662	Holidays Start 6	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40501	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40502	R/W	663	Holidays Ende 6	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40503	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40504	R/W	662	Holidays Start 7	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40505	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40506	R/W	663	Holidays Ende 7	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40507	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40508	R/W	662	Holidays Start 8	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40509	R/W	662	Status/Command	see section "Status / command"				
1.0	1.0			40510	R/W	663	Holidays Ende 8	H-Byte: Month L-Byte: Day	1 1	12 31	Month Day	1
1.0	1.0			40511	R/W	663	Status/Command	see section "Status / command"				
1.0	1.0			40512	R/W	668	Holidays Operating level	x 0: Frost protection 1: Reduced	0	1		1
						Time program ventilation 1						
1.5	1.5			40520	R/W	581, 582	Monday 1st phase on Monday 1st phase off	H-Byte: phase on L-Byte: phase off	00:00 00:00	24:00 24:00	h:m	10min
1.5	1.5			40521	R/W	583, 584	Monday 2nd phase on Monday 2nd phase off	H-Byte: phase on L-Byte: phase off	00:00 00:00	24:00 24:00	h:m	10min
1.5	1.5			40522	R/W	585, 586	Monday 3rd phase on Monday 3rd phase off	H-Byte: phase on L-Byte: phase off	00:00 00:00	24:00 24:00	h:m	10min
1.5	1.5			40523	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40524	R/W	581, 582	Tuesday 1st phase on Tuesday 1st phase off	H-Byte: phase on L-Byte: phase off	00:00 00:00	24:00 24:00	h:m	10min
1.5	1.5			40525	R/W	583, 584	Tuesday 2nd phase on Tuesday 2nd phase off	H-Byte: phase on L-Byte: phase off	00:00 00:00	24:00 24:00	h:m	10min
1.5	1.5			40526	R/W	585, 586	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5						Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40527	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40528	R/W	581, 582	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40529	R/W	583, 584	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40530	R/W	585, 586	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40531	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40532	R/W	581, 582	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40533	R/W	583, 584	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40534	R/W	585, 586	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40535	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40536	R/W	581, 582	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40537	R/W	583, 584	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40538	R/W	585, 586	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40539	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40540	R/W	581, 582	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40541	R/W	583, 584	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40542	R/W	585, 586	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40543	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40544	R/W	581, 582	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40545	R/W	583, 584	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40546	R/W	585, 586	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40547	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40548	R/W	589	Standard values TSP	x 0: No 1: Yes	0	1		1
						Time program ventilation 2						
1.5	1.5			40560	R/W	591, 592	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40561	R/W	593, 594	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40562	R/W	595, 596	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40563	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40564	R/W	591, 592	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40565	R/W	593, 594	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40566	R/W	595, 596	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			40567	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40568	R/W	591, 592	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40569	R/W	593, 594	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40570	R/W	595, 596	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40571	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40572	R/W	591, 592	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40573	R/W	593, 594	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40574	R/W	595, 596	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40575	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40576	R/W	591, 592	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40577	R/W	593, 594	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40578	R/W	595, 596	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40579	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40580	R/W	591, 592	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40581	R/W	593, 594	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40582	R/W	595, 596	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40583	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40584	R/W	591, 592	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40585	R/W	593, 594	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40586	R/W	595, 596	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40587	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40588	R/W	599	Standard values TSP	x 0: No 1: Yes	0	1		1
							Time program ventilation 3					
1.5	1.5			40600	R/W	621, 622	Monday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Monday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40601	R/W	623, 624	Monday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Monday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40602	R/W	625, 626	Monday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Monday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40603	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40604	R/W	621, 622	Tuesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Tuesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40605	R/W	623, 624	Tuesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Tuesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40606	R/W	625, 626	Tuesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Tuesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40607	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40608	R/W	621, 622	Wednesday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40609	R/W	623, 624	Wednesday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40610	R/W	625, 626	Wednesday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Wednesday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40611	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40612	R/W	621, 622	Thursday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40613	R/W	623, 624	Thursday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40614	R/W	625, 626	Thursday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Thursday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40615	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40616	R/W	621, 622	Friday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40617	R/W	623, 624	Friday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40618	R/W	625, 626	Friday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Friday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40619	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40620	R/W	621, 622	Saturday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40621	R/W	623, 624	Saturday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40622	R/W	625, 626	Saturday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Saturday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40623	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40624	R/W	621, 622	Sunday 1st phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 1st phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40625	R/W	623, 624	Sunday 2nd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 2nd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40626	R/W	625, 626	Sunday 3rd phase on	H-Byte: phase on	00:00	24:00	h:m	10min
1.5	1.5						Sunday 3rd phase off	L-Byte: phase off	00:00	24:00		
1.5	1.5			40627	R/W		Status / Command Switching phase status	Bit 0:1st phase on inactive Bit 1:1st phase off inactive Bit 2:2nd phase on inactive Bit 3:2nd phase off inactive Bit 4:3rd phase on inactive Bit 5:3rd phase off inactive Bit6-15: Unused				
1.5	1.5			40628	R/W	629	Standard values TSP	x 0: No 1: Yes	0	1		1
						Local Process Bus						
1.5	1.5			40640	R/W	6600	Device address		0	16		1
1.5	1.5			40641	R/W	6601	Segment address		0	14		1
1.5	1.5			40642	R/W	6604	LPB power supply function selection	0: Off x 1: Automatic	0	1		1
1.5	1.5			40643	R/W	6605	LPB power supply status	0: Off x 1: On	0	1		1
1.5	1.5			40644	R/W	6610	Display system message	0: No x 1: Yes	0	1		1
1.5	1.5			40645	R/W	6612	Alarm delay		2	60	min	1
1.5	1.5			40646	R/W	6612	Status/Command	see section "Status / command"				
1.5	1.5			40647	R/W	6620	Central switch-over working area	0: Segment x 1: System	0	1		1
1.5	1.5			40648	R/W	6621	Summer/winter changeover automatic	x 0: Local 1: Central	0	1		1
1.5	1.5			40649	R/W	6623	Operating mode changeover	0: Local x 1: Central	0	1		1
1.5	1.5			40650	R/W	6625	Dhw allocation	0: All heating-/cooling circuits local 1: All heating-/cooling circuits within segment x 2: All heating-/cooling circuits within system	0	2		1
1.5	1.5			40651	R/W	6627	Cool demand	0: Local x 1: Central	0	1		1
1.5	1.5			40652	R/W	6630	Cascade master	1: Off x 2: Automatically	1	2		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			40653	R/W	6632	Outside temp limit external source accept	0: No x 1: Yes	0	1		1
1.5	1.5			40654	R/W	6640	Clock time source	x 0: Autonomous clock in the controller 1: From bus: slave without remote setting 2: From bus: slave with remote setting 3: Controller is the clock time master	0	3		1
				0xA400..0xA7FF			**Process Signals** (bridging solution, for additional features and more detailed information see special document)					
1.0	1.0			41984... 42055	-	-	reserved - see special Document					
1.0	1.0	1.1		41984	R		TempAnfoEMxt	Value	0	140	°C	1/64
1.0	1.0	1.1		41985				Attribute	0	65535		
1.0	1.0	1.1		41986				Prio	0	16		
1.0	1.0	1.1		41987				Lrel	0	100	%	1
1.0	1.0	1.1		41988				AttributeExt	0	65535		
1.0	1.0	1.1		41990	R/W		StatEExt	Attribute	0	65535		
1.0	1.0	1.1		41991				LeistRel	0	100	%	1
1.0	1.0	1.1		41992				LeistAbs	0	65535	kWh	1/10
1.0	1.0	1.1		41993				BetStd	0	65535	h	1
1.0	1.0	1.1		41994				AttributeExt	0	65535		
1.0	1.0	1.1		41997	R/W		ProzSperrErz	H-Byte: c8Value L-Byte: c8Attribut	0 0	100 255	%	1
1.0	1.0	1.1		41998	R/W		ProzZwangErz	H-Byte: c8Value L-Byte: c8Attribut	0 0	100 255	%	1
1.0	1.0			41999	R		TempAnfoKuehlEMxt	Wert	0	140	°C	1/64
1.0	1.0			42000				Attribute	0	65535		
1.0	1.0			42005	R/W		StatEEKuehl	Attribute	0	65535		
1.0	1.0	1.0		42016	W		TempAnfo (Timeout 11 minutes)	Heating request temperature (Value)	0	140	°C	1/64
1.0	1.0	1.0		42017				Heating request control (Attribute): 0: Heat request off 1025: Heat request on	0	65535		
1.0	1.0	1.0		42018	R		StatEM	Heating state (Attribute) Bit0= Heating generator available Bit1= ... Bit2= Heating generator fault Bit3= ... Bit4= Heating generator looked permanently Bit5= Heating generator looked temporarily Bit6..8 = ... Bit9= Forced heat draw demand Bit10..14= ... Bit15= Defrost mode	0	65535		
1.0	1.0	1.0		42019				Heating generator relative output (LeistRel) 0: Generator off 1: Generator pump on >1: Output of generator	0	100	%	1
1.0	1.0	1.0		42020				Heating generator installed output (LeistAbs)	0	65535	kWh	1/10
1.0	1.0	1.0		42021	R		ProzSperrEM	H-Byte: c8Value L-Byte: c8Attribut	0 0	100 255	%	1
1.0	1.0	1.0		42022	R		ProzZwangEM	H-Byte: c8Value L-Byte: c8Attribut	0 0	100 255	%	1
1.0	1.0	1.0		42023	R		StatVM	Attribute				
1.0	1.0	1.0		42024	R		ProzSperrVM	H-Byte: c8Value L-Byte: c8Attribut	0 0	100 255	%	1
1.0	1.0	1.0		42025	R		ProzZwangVM	Wert Attribut	0 0	100 255	%	1
1.0	1.0			42032	W		TempAnfoKuehl (Timeout 11 minutes)	Cooling request temperature (Value)	0	140	°C	1/64
1.0	1.0			42033				Cooling request control (Attribute): 0: Cooling request off 65: Cooling request for common 1 on 129: Cooling request for common 2 on	0	65535		
1.0	1.0			42034	R		StatEMKuehl	Cooling state (Attribute) Bit0= Cooling generator/common available Bit1= Common 1 is actual cooling Bit2= Common 2 is actual cooling Bit3= Common 1 closed / no cooling Bit4= Common 2 closed / no cooling Bit5= ... Bit6= Cooling generator fault Bit7= Cooling generator looked permanently Bit8= Cooling generator looked temporarily Bit9= ... Bit10..15: not used	0	65535		
1.0	1.0			42035	R		StatVMKuehl	Attribute	0	65535		
1.0	1.0	1.0		42048	R/W		TempErzWert	Value	0	140	°C	1/64
1.0	1.0	1.0		42049			Status	see section "Status / command"				
1.0	1.0	1.0		42050	R		TempSchiVor	Value	0	140	°C	1/64
1.0	1.0	1.0		42051			Status	see section "Status / command"				
1.0	1.0	1.0		42052	R		TempPuffer	Value	0	140	°C	1/64
1.0	1.0	1.0		42053			Status	see section "Status / command"				
1.0	1.0	1.0		42054	R/W		TempAuss	Value	-50	50	°C	1/64
1.0	1.0	1.0		42055			Status	see section "Status / command"				
1.0	1.0			42056	R/W		Switch-on command heat pump See "Swi-on command HP stage x" in the manual	0: Control 1: Off 2: Stage1 3: Stage1 and 2	0	3		1
1.5	1.5			42057	W		TempRaumWert 1	Value	0	30	°C	1/64

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
1.5	1.5			42058			Status	see section "Status / command"				
1.5	1.5			42059	W		TempRaumWert 2	Value	0	30	°C	1/64
1.5	1.5			42060			Status	see section "Status / command"				
1.5	1.5			42061	W		TempRaumWert 3	Value	0	30	°C	1/64
1.5	1.5			42062			Status	see section "Status / command"				
		1.0		42073	W		TempAnfoVeRhExt (Instanz 1) (Timeout 5.5 minutes)	Heating request 1 temperature (Value)	0	140	°C	1/64
		1.0		42074				Heating request control (Attribute): 0: Heat request off 1025: Heat request on	0	65535		
		1.0		42075	W		TempAnfoVeRhExt (Instanz 2) (Timeout 5.5 minutes)	Heating request 2 temperature (Value)	0	140	°C	1/64
		1.0		42076				Heating request control (Attribute): 0: Heat request off 1025: Heat request on	0	65535		
		1.0		42077	W		TempAnfoVeRhExt (Instanz 3) (Timeout 5.5 minutes)	Heating request 3 temperature (Value)	0	140	°C	1/64
		1.0		42078				Heating request control (Attribute): 0: Heat request off 1025: Heat request on	0	65535		
		1.0		42079	W		TempAnfoVeRkExt (Instanz 1) (Timeout 5.5 minutes)	Cooling request temperature (Value)	0	140	°C	1/64
		1.0		42080				Cooling request control (Attribute): 0: Cooling request off 1025: Cooling request on	0	65535		
1.0	1.0			0xA800…0xA9FF		**Modbus 1**						
1.5	1.5			43008	R/W	6651	Modbus Slaveadress		1	247		1
1.5	1.5			43009	R/W	6651	Status/Command	see section "Status / command"				
1.5	1.5			43010	R/W	6652	Modbus baud rate		0	8		1
1.5	1.5			43011	R/W	6653	Modbus parity	x 0: Even 1: Odd 2: None	0	2		1
1.5	1.5			43012	R/W	6654	Modbus stop bit		1	2		1
1.5	1.5			43013	R/W		Output test Modbus Port 1		0	100	%	1
1.5	1.5			43014	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43015	R/W		Output test Modbus Port 2		0	100	%	1
1.5	1.5			43016	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43017	R/W		Output test Modbus Port 3		0	100	%	1
1.5	1.5			43018	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43019	R/W		Output test Modbus Port 4		0	100	%	1
1.5	1.5			43020	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43021	R/W		Output test Modbus Port 5		0	100	%	1
1.5	1.5			43022	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43023	R/W		Output test Modbus Port 6		0	100	%	1
1.5	1.5			43024	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43025	R/W		Output test Modbus Port 7		0	100	%	1
1.5	1.5			43026	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43027	R/W		Output test Modbus Port 8		0	100	%	1
1.5	1.5			43028	R/W		Status/Command	see section "Status / command"				
1.5	1.5			43031	R/W	6660	Modbus Slave address port 1		1	247		1
1.5	1.5			43032	R/W	6660	Status/Command	see section "Status / command"				
1.5	1.5			43033	R/W	6665	Modbus Slave address port 2		1	247		1
1.5	1.5			43034	R/W	6665	Status/Command	see section "Status / command"				
1.5	1.5			43035	R/W	6670	Modbus Slave address port 3		1	247		1
1.5	1.5			43036	R/W	6670	Status/Command	see section "Status / command"				
1.5	1.5			43037	R/W	6675	Modbus Slave address port 4		1	247		1
1.5	1.5			43038	R/W	6675	Status/Command	see section "Status / command"				
1.5	1.5			43039	R/W	6680	Modbus Slave address port 5		1	247		1
1.5	1.5			43040	R/W	6680	Status/Command	see section "Status / command"				
1.5	1.5			43041	R/W	6685	Modbus Slave address port 6		1	247		1
1.5	1.5			43042	R/W	6685	Status/Command	see section "Status / command"				
1.5	1.5			43043	R/W	6690	Modbus Slave address port 7		1	247		1
1.5	1.5			43044	R/W	6690	Status/Command	see section "Status / command"				
1.5	1.5			43045	R/W	6695	Modbus Slave address port 8		1	247		1
1.5	1.5			43046	R/W	6695	Status/Command	see section "Status / command"				
1.5	1.5			43049	R/W	6661	Modbus Device port 1	x 0: None 1: OEM 2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek	0	5		1
1.5	1.5			43050	R/W	6666	Modbus Device port 2	x 0: None 1: OEM 2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek	0	5		1
1.5	1.5			43051	R/W	6671	Modbus Device port 3	x 0: None 1: OEM 2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek	0	5		1
1.5	1.5			43052	R/W	6676	Modbus Device port 4	x 0: None 1: OEM 2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek	0	5		1
1.5	1.5			43053	R/W	6681	Modbus Device port 5	x 0: None 1: OEM 2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek	0	5		1
1.5	1.5			43054	R/W	6686	Modbus Device port 6	x 0: None 1: OEM	0	5		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek				
1.5	1.5			43055	R/W	6691	Modbus Device port 7	x 0: None 1: OEM 2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek	0	5		1
1.5	1.5			43056	R/W	6696	Modbus Device port 8	x 0: None 1: OEM 2: Pump Grundfos 3: Pump Wilo 4: Fan Ebm-papst 5: Inverter Invertek	0	5		1
1.5	1.5			43059	R/W	6662	Modbus Function port 1	see controller manual	0	81		1
1.5	1.5			43060	R/W	6667	Modbus Function port 2	see controller manual	0	81		1
1.5	1.5			43061	R/W	6672	Modbus Function port 3	see controller manual	0	81		1
1.5	1.5			43062	R/W	6677	Modbus Function port 4	see controller manual	0	81		1
1.5	1.5			43063	R/W	6682	Modbus Function port 5	see controller manual	0	81		1
1.5	1.5			43064	R/W	6687	Modbus Function port 6	see controller manual	0	81		1
1.5	1.5			43065	R/W	6692	Modbus Function port 7	see controller manual	0	81		1
1.5	1.5			43066	R/W	6697	Modbus Function port 8	see controller manual	0	81		1
1.5	1.5			43069	R		Output state Modbus Port 1		0	65335		1
1.5	1.5			43070	R		Status	see section "Status / command"				
1.5	1.5			43071	R		Output state Modbus Port 2		0	65335		1
1.5	1.5			43072	R		Status	see section "Status / command"				
1.5	1.5			43073	R		Output state Modbus Port 3		0	65335		1
1.5	1.5			43074	R		Status	see section "Status / command"				
1.5	1.5			43075	R		Output state Modbus Port 4		0	65335		1
1.5	1.5			43076	R		Status	see section "Status / command"				
1.5	1.5			43077	R		Output state Modbus Port 5		0	65335		1
1.5	1.5			43078	R		Status	see section "Status / command"				
1.5	1.5			43079	R		Output state Modbus Port 6		0	65335		1
1.5	1.5			43080	R		Status	see section "Status / command"				
1.5	1.5			43081	R		Output state Modbus Port 7		0	65335		1
1.5	1.5			43082	R		Status	see section "Status / command"				
1.5	1.5			43083	R		Output state Modbus Port 8		0	65335		1
1.5	1.5			43084	R		Status	see section "Status / command"				
1.5	1.5			43087	R		Output signal Modbus Port 1		0	65335		1
1.5	1.5			43088	R		Status	see section "Status / command"				
1.5	1.5			43089	R		Output signal Modbus Port 2		0	65335		1
1.5	1.5			43090	R		Status	see section "Status / command"				
1.5	1.5			43091	R		Output signal Modbus Port 3		0	65335		1
1.5	1.5			43092	R		Status	see section "Status / command"				
1.5	1.5			43093	R		Output signal Modbus Port 4		0	65335		1
1.5	1.5			43094	R		Status	see section "Status / command"				
1.5	1.5			43095	R		Output signal Modbus Port 5		0	65335		1
1.5	1.5			43096	R		Status	see section "Status / command"				
1.5	1.5			43097	R		Output signal Modbus Port 6		0	65335		1
1.5	1.5			43098	R		Status	see section "Status / command"				
1.5	1.5			43099	R		Output signal Modbus Port 7		0	65335		1
1.5	1.5			43100	R		Status	see section "Status / command"				
1.5	1.5			43101	R		Output signal Modbus Port 8		0	65335		1
1.5	1.5			43102	R		Status	see section "Status / command"				
1.5	1.5			43105	R		Input signal Modbus Port 1		0	65335		1
1.5	1.5			43106	R		Status	see section "Status / command"				
1.5	1.5			43107	R		Input signal Modbus Port 2		0	65335		1
1.5	1.5			43108	R		Status	see section "Status / command"				
1.5	1.5			43109	R		Input signal Modbus Port 3		0	65335		1
1.5	1.5			43110	R		Status	see section "Status / command"				
1.5	1.5			43111	R		Input signal Modbus Port 4		0	65335		1
1.5	1.5			43112	R		Status	see section "Status / command"				
1.5	1.5			43113	R		Input signal Modbus Port 5		0	65335		1
1.5	1.5			43114	R		Status	see section "Status / command"				
1.5	1.5			43115	R		Input signal Modbus Port 6		0	65335		1
1.5	1.5			43116	R		Status	see section "Status / command"				
1.5	1.5			43117	R		Input signal Modbus Port 7		0	65335		1
1.5	1.5			43118	R		Status	see section "Status / command"				
1.5	1.5			43119	R		Input signal Modbus Port 8		0	65335		1
1.5	1.5			43120	R		Status	see section "Status / command"				

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
				0xB000…0xB3FF		**Config extension module**						
1.5	1.5			45056	R/W	7300	Function extension module 1	see controller manual	0	20		1
1.6	1.6			45057	R/W	7301	Relay output QX21 module 1	see controller manual	0	83		1
1.6	1.6			45058	R/W	7302	Relay output QX22 module 1	see controller manual	0	83		1
1.6	1.6			45059	R/W	7303	Relay output QX23 module 1	see controller manual	0	83		1
1.5	1.5			45060	R/W	7307	Sensor input BX21 module 1	see controller manual	0	45		1
1.5	1.5			45061	R/W	7308	Sensor input BX22 module 1	see controller manual	0	45		1
1.5	1.5			45062	R/W	7311	Function input H2 module 1	see controller manual	0	61		1
1.5	1.5			45063	R/W	7312	Contact type H2 module 1	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45064	R/W	7314	Voltage value 1 H2 module 1		0	10	V	1/10
1.5	1.5			45065	R/W	7315	Funct value 1 H2 module 1		-100	500		1/10
1.5	1.5			45066	R/W	7316	Voltage value 2 H2 module 1		0	10	V	1/10
1.5	1.5			45067	R/W	7317	Funct value 2 H2 module 1		-100	500		1/10
1.5	1.5			45068	R/W	7318	Temp sensor H2 module 1	see controller manual	0	21		1
1.5	1.5			45069	R/W	7321	Function input H21 module 1	see controller manual	0	61		1
1.5	1.5			45070	R/W	7322	Contact type H21 module 1	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45071	R/W	7324	Input value 1 H21 module 1		0	1000		1/10
1.5	1.5			45072	R/W	7325	Function value 1 H21 module 1		-100	500		1/10
1.5	1.5			45073	R/W	7326	Input value 2 H21 module 1		0	1000		1/10
1.5	1.5			45074	R/W	7327	Function value 2 H21 module 1		-100	500		1/10
1.5	1.5			45075	R/W	7328	Temp sensor H21 module 1	see controller manual	0	21		1
1.5	1.5			45076	R/W	7331	Function input H22 module 1	see controller manual	0	61		1
1.5	1.5			45077	R/W	7332	Contact type H22 module 1	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45078	R/W	7334	Input value 1 H22 module 1		0	1000		1/10
1.5	1.5			45079	R/W	7335	Function value 1 H22 module 1		-100	500		1/10
1.5	1.5			45080	R/W	7336	Input value 2 H22 module 1		0	1000		1/10
1.5	1.5			45081	R/W	7337	Function value 2 H22 module 1		-100	500		1/10
1.5	1.5			45082	R/W	7338	Temp sensor H22 module 1	see controller manual	0	21		1
1.5	1.5			45083	R/W	7341	Voltage output GX21 module 1	x 1: Off 2: 12 Volt	1	2		1
1.6	1.6			45084	R/W	7342	Function input EX21 Modul 1	see controller manual	0	30		1
1.5	1.5			45085	R/W	7343	Operating action input EX21 Modul 1	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45086	R/W	7348	Function output UX21 module 1	see controller manual	0	35		1
1.5	1.5			45087	R/W	7349	Signal logic output UX21 module 1	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			45088	R/W	7350	Signal output UX21 module 1	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			45089	R/W	7354	Temp value 10V UX21 module 1		5	130	°C	1/64
1.5	1.5			45090	R/W	7355	Function output UX22 module 1	see controller manual	0	35		1
1.5	1.5			45091	R/W	7356	Signal logic output UX22 module 1	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			45092	R/W	7357	Signal output UX22 module 1	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			45093	R/W	7361	Temp value 10V UX22 module 1		5	130	°C	1/64
1.5	1.5			45094	R/W	7362	Function output WX21 module 1	x 0: None 1: Expansion valve evapor V81 2: Expansion valve EVI V82	0	2		1
1.5	1.5			45095	R/W		Operating mode WX21 module 1	x 0: Halbschritt 1: Vollschritt 1-phasig	0	1		1
1.5	1.5			45096	R/W		Rotating direction WX21 module 1	0: Standard x 1: Inverted	0	1		1
1.5	1.5			45097	R/W		Step rate WX21 module 1		30	300		1
1.5	1.5			45098	R/W		Number of steps WX21 module 1		0	6400		1
1.5	1.5			45099	R/W		Steps at setpoint 0% WX21 module 1		0	6400		1
1.5	1.5			45100	R/W		Steps at setpoint 100% WX21 module 1		0	6400		1
1.5	1.5			45101	R/W		Steps overdrive WX21 module 1		0	6400		1
1.5	1.5			45102	R/W		Calibration WX21 module 1		0	255	h	1
1.5	1.5			45103	R/W		Status/Command	see section "Status / command"				
1.5	1.5			45104	R/W	7375	Function extension module 2	see controller manual	0	20		1
1.6	1.6			45105	R/W	7376	Relay output QX21 module 2	see controller manual	0	83		1
1.6	1.6			45106	R/W	7377	Relay output QX22 module 2	see controller manual	0	83		1
1.6	1.6			45107	R/W	7378	Relay output QX23 module 2	see controller manual	0	83		1
1.5	1.5			45108	R/W	7382	Sensor input BX21 module 2	see controller manual	0	45		1
1.5	1.5			45109	R/W	7383	Sensor input BX22 module 2	see controller manual	0	45		1
1.5	1.5			45110	R/W	7386	Function input H2 module 2	see controller manual	0	61		1
1.5	1.5			45111	R/W	7387	Contact type H2 module 2	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45112	R/W	7389	Voltage value 1 H2 module 2		0	10	V	1/10
1.5	1.5			45113	R/W	7390	Funct value 1 H2 module 2		-100	500		1/10
1.5	1.5			45114	R/W	7391	Voltage value 2 H2 module 2		0	10	V	1/10
1.5	1.5			45115	R/W	7392	Funct value 2 H2 module 2		-100	500		1/10
1.5	1.5			45116	R/W	7393	Temp sensor H2 module 2	see controller manual	0	21		1
1.5	1.5			45117	R/W	7396	Function input H21 module 2	see controller manual	0	61		1
1.5	1.5			45118	R/W	7397	Contact type H21 module 2	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45119	R/W	7399	Input value 1 H21 module 2		0	1000		1/10
1.5	1.5			45120	R/W	7400	Function value 1 H21 module 2		-100	500		1/10
1.5	1.5			45121	R/W	7401	Input value 2 H21 module 2		0	1000		1/10
1.5	1.5			45122	R/W	7402	Function value 2 H21 module 2		-100	500		1/10
1.5	1.5			45123	R/W	7403	Temp sensor H21 module 2	see controller manual	0	21		1
1.5	1.5			45124	R/W	7406	Function input H22 module 2	see controller manual	0	61		1
1.5	1.5			45125	R/W	7407	Contact type H22 module 2	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45126	R/W	7409	Input value 1 H22 module 2		0	1000		1/10
1.5	1.5			45127	R/W	7410	Function value 1 H22 module 2		-100	500		1/10
1.5	1.5			45128	R/W	7411	Input value 2 H22 module 2		0	1000		1/10
1.5	1.5			45129	R/W	7412	Function value 2 H22 module 2		-100	500		1/10
1.5	1.5			45130	R/W	7413	Temp sensor H22 module 2	see controller manual	0	21		1
1.5	1.5			45131	R/W	7416	Voltage output GX21 module 2	x 1: Off 2: 12 Volt	1	2		1
1.6	1.6			45132	R/W	7417	Function input EX21 Modul 2	see controller manual	0	30		1
1.5	1.5			45133	R/W	7418	Operating action input EX21 Modul 2	0: normal closed	0	1		1

RVS21	RVS61	RVS43	LMS	Modbus registers	R/W	Operating line	Function	Enumeration/ Description	Lower limit	Upper limit	Unit	Resolution
								x 1: normal opened				
1.5	1.5			45134	R/W	7423	Function output UX21 module 2	see controller manual	0	35		1
1.5	1.5			45135	R/W	7424	Signal logic output UX21 module 2	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			45136	R/W	7425	Signal output UX21 module 2	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			45137	R/W	7429	Temp value 10V UX21 module 2		5	130	°C	1/64
1.5	1.5			45138	R/W	7430	Function output UX22 module 2	see controller manual	0	35		1
1.5	1.5			45139	R/W	7431	Signal logic output UX22 module 2	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			45140	R/W	7432	Signal output UX22 module 2	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			45141	R/W	7436	Temp value 10V UX22 module 2		5	130	°C	1/64
1.5	1.5			45142	R/W	7437	Function output WX21 module 2	x 0: None 1: Expansion valve evapor V81 2: Expansion valve EVI V82	0	2		1
1.5	1.5			45143	R/W		Operating mode WX21 module 2	x 0: Halbschritt 1: Vollschritt 1-phasig	0	1		1
1.5	1.5			45144	R/W		Rotating direction WX21 module 2	0: Standard x 1: Inverted	0	1		1
1.5	1.5			45145	R/W		Step rate WX21 module 2		30	300		1
1.5	1.5			45146	R/W		Number of steps WX21 module 2		0	6400		1
1.5	1.5			45147	R/W		Steps at setpoint 0% WX21 module 2		0	6400		1
1.5	1.5			45148	R/W		Steps at setpoint 100% WX21 module 2		0	6400		1
1.5	1.5			45149	R/W		Steps overdrive WX21 module 2		0	6400		1
1.5	1.5			45150	R/W		Calibration WX21 module 2		0	255	h	1
1.5	1.5			45151	R/W		Status/Command	see section "Status / command"				
1.5	1.5			45152	R/W	7450	Function extension module 3	see controller manual	0	20		1
1.6	1.6			45153	R/W	7451	Relay output QX21 module 3	see controller manual	0	83		1
1.6	1.6			45154	R/W	7452	Relay output QX22 module 3	see controller manual	0	83		1
1.6	1.6			45155	R/W	7453	Relay output QX23 module 3	see controller manual	0	83		1
1.5	1.5			45156	R/W	7457	Sensor input BX21 module 3	see controller manual	0	45		1
1.5	1.5			45157	R/W	7458	Sensor input BX22 module 3	see controller manual	0	45		1
1.5	1.5			45158	R/W	7461	Function input H2 module 3	see controller manual	0	61		1
1.5	1.5			45159	R/W	7462	Contact type H2 module 3	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45160	R/W	7464	Voltage value 1 H2 module 3		0	10	V	1/10
1.5	1.5			45161	R/W	7465	Funct value 1 H2 module 3		-100	500		1/10
1.5	1.5			45162	R/W	7466	Voltage value 2 H2 module 3		0	10	V	1/10
1.5	1.5			45163	R/W	7467	Funct value 2 H2 module 3		-100	500		1/10
1.5	1.5			45164	R/W	7468	Temp sensor H2 module 3	see controller manual	0	21		1
1.5	1.5			45165	R/W	7471	Function input H21 module 3	see controller manual	0	61		1
1.5	1.5			45166	R/W	7472	Contact type H21 module 3	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45167	R/W	7474	Input value 1 H21 module 3		0	1000		1/10
1.5	1.5			45168	R/W	7475	Function value 1 H21 module 3		-100	500		1/10
1.5	1.5			45169	R/W	7476	Input value 2 H21 module 3		0	1000		1/10
1.5	1.5			45170	R/W	7477	Function value 2 H21 module 3		-100	500		1/10
1.5	1.5			45171	R/W	7478	Temp sensor H21 module 3	see controller manual	0	21		1
1.5	1.5			45172	R/W	7481	Function input H22 module 3	see controller manual	0	61		1
1.5	1.5			45173	R/W	7482	Contact type H22 module 3	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45174	R/W	7484	Input value 1 H22 module 3		0	1000		1/10
1.5	1.5			45175	R/W	7485	Function value 1 H22 module 3		-100	500		1/10
1.5	1.5			45176	R/W	7486	Input value 2 H22 module 3		0	1000		1/10
1.5	1.5			45177	R/W	7487	Function value 2 H22 module 3		-100	500		1/10
1.5	1.5			45178	R/W	7488	Temp sensor H22 module 3	see controller manual	0	21		1
1.5	1.5			45179	R/W	7491	Voltage output GX21 module 3	x 1: Off 2: 12 Volt	1	2		1
1.6	1.6			45180	R/W	7492	Function input EX21 Modul 3	see controller manual	0	30		1
1.5	1.5			45181	R/W	7493	Operating action input EX21 Modul 3	0: normal closed x 1: normal opened	0	1		1
1.5	1.5			45182	R/W	7498	Function output UX21 module 3	see controller manual	0	35		1
1.5	1.5			45183	R/W	7499	Signal logic output UX21 module 3	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			45184	R/W	7500	Signal output UX21 module 3	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			45185	R/W	7504	Temp value 10V UX21 module 3		5	130	°C	1/64
1.5	1.5			45186	R/W	7505	Function output UX22 module 3	see controller manual	0	35		1
1.5	1.5			45187	R/W	7506	Signal logic output UX22 module 3	x 0: Standard 1: Inverted	0	1		1
1.5	1.5			45188	R/W	7507	Signal output UX22 module 3	x 0: 0..10V 1: PWM	0	1		1
1.5	1.5			45189	R/W	7511	Temp value 10V UX22 module 3		5	130	°C	1/64
1.5	1.5			45190	R/W	7512	Function output WX21 module 3	x 0: None 1: Expansion valve evapor V81 2: Expansion valve EVI V82	0	2		1
1.5	1.5			45191	R/W		Operating mode WX21 module 3	x 0: Halbschritt 1: Vollschritt 1-phasig	0	1		1
1.5	1.5			45192	R/W		Rotating direction WX21 module 3	0: Standard x 1: Inverted	0	1		1
1.5	1.5			45193	R/W		Step rate WX21 module 3		30	300		1
1.5	1.5			45194	R/W		Number of steps WX21 module 3		0	6400		1
1.5	1.5			45195	R/W		Steps at setpoint 0% WX21 module 3		0	6400		1
1.5	1.5			45196	R/W		Steps at setpoint 100% WX21 module 3		0	6400		1
1.5	1.5			45197	R/W		Steps overdrive WX21 module 3		0	6400		1
1.5	1.5			45198	R/W		Calibration WX21 module 3		0	255	h	1
1.5	1.5			45199	R/W		Status/Command	see section "Status / command"				

4 Status / command

Example from the list

Modbus registers	R/W	Parameter numbers	Parameters	Enumeration/ Description
1031	R/W	730	Status/Command	see "Status / command"

Note

The types of access differ by status (read) and command (write).

- Status is set up as a bit set.
- Command is an enumeration type, i.e. write access may only include one command.

Status

A status query (read) is by bit.

Bit	Status	Notes / explanation
Bit0	ObjectUnused	➔ 'ObjectUnused' = True (=1) indicates that the data point is inactive. **Explanation**: The data point is not used by the device application (inactive / "Out of Operation")
Bit1	SensorShortCircuit	➔ 'SensorShortCircuit' = True (=1) indicates that the device fault is a short circuit. **Explanation** (only relevant together with "DeviceFailure"): Sensor short circuit. Note: This status bit cannot be influenced by a write command.
Bit2	Overridden	➔ 'Overridden' = True (=1) indicates that the data point was overwritten with an 'Override command'. **Note:** • The 'Override Mode' is not used for data points for Modbus • Do not use 'Override' on these data points, the bit is always 0.
Bit3	Reserved bit	
Bit4	Reserved bit	
Bit5	Reserved bit	
Bit6	DeviceFailure	➔ 'DeviceFailure' = True (=1) indicates that the device fault (e.g. faulty sensor, A/D converter) influences the data point. **Note**: This status bit cannot be influenced by a write command.
Bit7	Reserved bit	Always 0

Command

A command is used for write commands using the following numeric values:

Value	Command	Notes / explanation
0	Release (release of 'Override' data)	Not used in Modbus
1	Write (normal write access)	Required for write access
2	Override (access with 'Override' rights)	Not used in Modbus
3	Reserved	
4	Reserved	
5	SetOutOfService (sets data points to 'out of service')	Special, to disable setting values and linked application functions.
6	ResetOutOfService (sets data points to 'in service')	Special, to enable setting values and linked application functions.
>7	Reserved	

5 Date formats

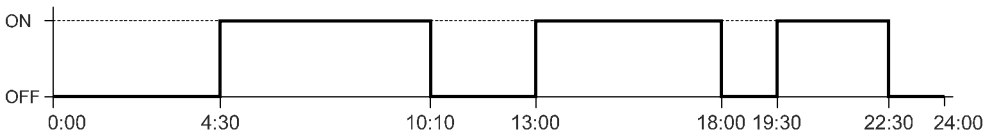
Example from the list

Modbus registers	R/W	Parameter numbers	Parameters	Enumeration/ Description
39920	R/W		Clock time and Date	Year

Structure of date formats

Date format	Comment
Year (8 Bit value)	1900-1999 -> 000…099 2000-2099 -> 100…199
Month	1 = January … 12 = December
Hour	0…24
Minute	0…59
Second	0…59
Day	1…31
NY (No Year)	NY (No Year) = 0 year figure valid NY (No Year) = 1 year figure blank
ND (No Date)	ND (No Date) = 0 month / day valid ND (No Date) = 1 month / day blank
NW (No Week)	NW (No Week) = 0 weekday valid NW (No Week) = 1 weekday blank
NT (No Time)	NT (No Time) = 0 time of day valid NT (No Time) = 1 time of day blank
SUTI	SUTI = 0 standard time SUTI = 1 summer time

Time switch programs



Switch	Time	Calculation		DEC	HEX	High byte Low byte	Register (HEX) High byte	 Low byte	Register (DEC)
ON	04:30	(4 * 60/10) + 30/10	=	27	1B	High Byte	1B	3D	6973
OFF	10:10	(10 * 60/10) + 10/10	=	61	3D	Low Byte			
ON	13:00	(13 * 60/10)	=	78	4E	High Byte	4E	6C	20076
OFF	18:00	(18 * 60/10)	=	108	6C	Low Byte			
ON	19:30	(19 * 60/10) + 30/10	=	117	75	High Byte	75	87	30087
OFF	22:30	(22 * 60/10) + 30/10	=	135	87	Low Byte			

6 Modbus process signals

6.1 Engineering notes on process signals

Controller network applications

Process signals can be read and written over Modbus.
External sources or consumers can be integrated using process signals as well as writing heating / and cooling circuit demands via Modbus.

RVS is the segment master

For the external source or consumer integration, the Albatros2 controller must be configured in the LPB system as the segment master (LPB address = 1; Segment address = 0…14).

Register structure

The process signals have different lengths and generally extend to multiple Modbus registers. The following **rules** are mandatory to access the Modbus register:

1. Data consistency

A process signal must be read or written as a whole, i.e. the entire structure, one time over multiple registers (Multiple Read / Write).

2. Read process signal

A process signal from the controller (**Read**) can be read any number of times. Do not drop below a read cycle of 20 seconds to avoid unnecessary load.

3. Write process signals

Transmission times apply to a process signal to the controller (**Write**); the times are specific to the signal:

COV (change)	• The signal is written when the content changes. • Do not drop below a write cycle of 20 seconds.
Period	• The signal must be written on a periodic basis even if there is no change to content.
Timeout	• The signal must at a minimum be written once within this time. • Afterwards, the Albatros2 controller interprets the signal as 'lost' and initializes the content internally or no longer considers it.

Note

The specific values for COV, period, and timeout are indicated in the following section as well as in the controller manuals.

Additional background information

- Process signals to the controller are "Write only", although they can to some extent be read.
  – Data is not stored on the controller for these process signals; they are forwarded directly to the LPB side.
  – The data content is undefined when restored and should no longer be interpreted.
- Unsupported/unused values and attributes for process signals must be set to = 0 unless otherwise specified.

6.2 List of process signals

Description	Process signal	Register address			Func-tion	OV version Modbus	COV	Period	Timeout
		DEC	HEX	Number of registers					
Heat demand to source	TempAnfoEMxt	41984	A400	5	R	1.1			
Source status	StatEExt	41990	A406	5	R / W	1.1	n/a	1 min	2.5 min
Lock signal from source	ProzSperrErz	41997	A40D	1	R / W	1.1	n/a		
Forced signal from source	ProzZwangErz	41998	A40E	1	R / W	1.1	n/a		
Heat demand from consumer	TempAnfo	42016	A420	2	R / W	1.0	1 K	5 min	11 min
Source master collection status	StatEM	42018	A422	3	R	1.0			
Lock signal from source master	ProzSperrEM	42021	A425	1	R	1.0			
Forced signal from source master	ProzZwangEM	42022	A426	1	R	1.0			
Consumer master collection status	StatVM	42023	A427	1	R	1.1			
Lock signal from consumer master	ProzSperrVM	42024	A428	1	R	1.1			
Forced signal from consumer master	ProzZwangVM	42025	A429	1	R	1.1			
Heat demand heating circuit 1	TempAnfoVeRhExt (1)	42073	A449	2	W	1.0	1 K	1 min	5.5 min
Heat demand heating circuit 2	TempAnfoVeRhExt (2)	42075	A45B	2	W	1.0	1 K	1 min	5.5 min
Heat demand heating circuit 3	TempAnfoVeRhExt (3)	42077	A45D	2	W	1.0	1 K	1 min	5.5 min
Cooling request cooling circuit 1	TempAnfoVeRkExt (1)	42079	A45F	2	W	1.0	1 K	1 min	5.5 min

6.2.1 TempAnfoEMxt

Write — No function

Read — The present heat demand to the source as well as the stage releases for the source can be read.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (Object LPB 500) TempDmd
41984	0-15	0...140 °C	1/64 °C	Heat demand to source
41985	0-15	0-65535	-	Attribute 1
	0	0 - 1	G	1 = The heat demand is value ¦ 0 = Invalid
	1	0 - 1	Z	1 = Demand requires primary pump, if available
	2	0 - 1	S1	1 = Control release stage1 or Basic stage ¦ 0 = Stage1 locked
	3	0 - 1	V1	1 = Force for stage1 or basic stage
	4	0 - 1	S2	1 = Control release for stage2 or modulation ¦ 0 = Stage2 locked
	5	0 - 1	V2	1 = Force for stage 2
	6	0 - 1	R	Internal
	7	0 - 1	K	Internal
	8	0 - 1	GFr	Internal
	9	0 - 1	KFr	Internal
	10	0 - 1	Kfue	Internal
	11	0 - 1	Bw	1 = Demand includes DHW charging
	12	0 - 1	ZL	Internal
	13	0 - 1	PufferLad	Internal
	14	0 - 1	Estrich	1 = Floor curing function determines the present demand
	15	0 - 1	S3	1 = Control release for stage 3 (electric immersion heater)
41986	0-15	0-16	1	Internal
41987	0-15	0…100%	1 %	Internal
41988	0-15	0-65535	-	Internal

6.2.2 StatEExt

Write — Process signal StatEExt supplies the source state.

Read — The current value can be read.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 522) Status source
41990	0-15	0-65535	-	Attribute 1
	0	0 - 1	G	1 = Source is available
	1	0 - 1	ECO	1 = Source is unavailable (outside temperature limit)
	2	0 - 1	Sto	1 = Source is in fault
	3	0 - 1	Kam	1 = Chimney sweep function is active
	4	0 - 1	OffP	1 = Source is manually locked
	5	0 - 1	OffT	1 = Source is temporarily locked (minimum switch-off time)
	6	0 - 1	F1	Internal
	7	0 - 1	R1	Internal
	8	0 - 1	F2	Internal
	9	0 - 1	R2	Internal
	10	0 - 1	S1	1 = Stage 1 of the source is operating
	11	0 - 1	S2	1 = Stage 2 or modulation of source is operating
	12	0 - 1	Hand	1 = Manual operation is activated
	13	0 - 1	xx	Internal
	14	0 - 1	xx	Internal
	15	0 - 1	xx	Internal
41991	0-15	0 – 100	1 %	Current relative output (1 = Pump is switched on)
41992	0-15	0..1000.0	0,1 KW	Installed nominal output of the heat source
41993	0-15			Operating hours
41994	0-15	0-65535	-	Attribute 2
	0 -15	0 - 1	xx	Internal

6.2.3 ProzSperrErz

Write — The external source reduces the current heat output of the consumer throughout the LPB network (start-up load, maintain return temperature).

Read — The current value can be read.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 504) Lock signal source
41997	0 – 7	0-255	-	Attributes
	0	0 - 1	G	1 = Reduction signal is valid
	1	0 - 1	T	1 = Reduction is mandatory
	2	0 - 1	VA	Internal
	3	0 - 1	PHK	Internal
	4	0 - 1	Bw	Internal
	5	0 - 1	Puffer	Internal
	6	0 - 1	Reserve	--
	7	0 - 1	Reserve	--
	8 - 15	0 - 100	1%	Reduction of heat output as a percentage

6.2.4 ProzZwangErz

Write — The external source demands or increases the current heat output of the consumer throughout the LPB network (overrun, overheating protection).

Read — The current value can be read.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 507) Forced signal source
41998	0 – 7	0-255	-	Attributes
	0	0 - 1	G	1 = The forced signal is valid
	1	0 - 1	T	1 = Forced to all consumers ¦ 0 = Demands overrun only
	2	0 - 1	P	Internal
	3	0 - 1	N	Internal
	4	0 - 1	HKN	Internal
	5	0 - 1	HKM	Internal
	6	0 - 1	Bw	Internal
	7	0 - 1	Puffer	Internal
	8 - 15	0 - 100	1%	Increase in heat output as a percentage as needed

6.2.5 TempAnfo

Write
- Heat demand is evaluated immediately for internally available demands.
- The current highest demand is used as the source setpoint (or cascade flow setpoint).
- The signal has various attributes that detail the demand.

Read — The current resultant heat demand can be read.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 500) TempAnfo
42016	0-15	0...140°C	1/64 °C	Heat demand from consumer
42017	0-15	0-65535	-	Attributes
	0	0 - 1	G	1 = Heat demand is valid ¦ 0 = Invalid
	1	0 - 1	Z	1 = Demand requires the supply pump if available
	2	0 - 1	Lp	1 = Absolute DHW charging priority for heating circuit is active
	3	0 - 1	Gv	1 = Shifting DHW charging priority is active
	4	0 - 1	Max	1 = Current demand demands max. limitation.
	5	0 - 1	Min	Internal
	6	0 - 1	Bw	1= Demand includes DHW charging
	7	0 - 1	LpPu	1 = Absolute DHW charging priority for pump circuits is active
	8	0 - 1	Leg	1 = The DHW storage tank legionella function is active
	9	0 - 1	ZL	Internal
	10	0 - 1	Hk	1= Demand includes heating circuit demand
	11	0 - 1	Puffer	1 = Consumer can draw heat from the storage tank
	12	0 - 1	Umlad	Internal
	13	0 - 1	PufferLad	Internal
	14	0 - 1	Estrich	1 = Floor curing function determines the current demand
	15	0 - 1	OptWirk	Internal

6.2.6 StatEM

Write — No function

Read — Process signal StatEM provides the current status of the source.

In the event of multiple sources (cascade), the information relevant for the consumer is provided in StatEM.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 522) Status source master
42018	0-15	0-65535	-	Attributes
	0	0 - 1	G	1 = At least one heat source is available
	1	0 - 1	ECO	1 = No heat source is available (outside temperature limit)
	2	0 - 1	Sto	1 = No heat source is available (fault)
	3	0 - 1	Kam	1 = Chimney sweep function is active
	4	0 - 1	OffP	1 = No heat source is available (manually locked)
	5	0 - 1	OffT	1 = No heat source is currently available (DHW charging)
	6	0 - 1	StByRh	Internal
	7	0 - 1	StByAll	Internal
	8	0 - 1	Handbtr	1 = Manual mode is activated
	9	0 - 1	WAbZw.	Internal
	10	0 - 1	fTeilLast	Internal
	11	0 - 1	BwBereit	Internal
	12	0 - 1	N_Bereit	Internal
	13	0 - 1	EndeLad	Internal
	14	0 - 1	OptWirk	Internal
	15	0 - 1	Abtau	1 =At least one source (HP) is currently in defrost function
42019	0-15	0 – 100	1 %	Current relative output (1 = Pump is switched on)
42020	0-15	0..3276.8	0,1 KW	Installed nominal output of the heat source

6.2.7 ProzSperrEM

Write — No function

Read — With process signal ProzSperrEM, the source reduces the current heat output of the consumer throughout the LPB network.

This signal is generated from the available signals of the source (start-up load, maintain return temperature, shifting DHW priority).

Address (decimal)	Bits 0=LSB, 15=MSB	Rangee	Unit / Bit name	Meaning (object LPB 504) Lock signal source master
42021	0 – 7	0-255	-	Attributes
	0	0 - 1	G	1 = The reduction signal is valid
	1	0 - 1	T	1 = The reduction is mandatory
	2	0 - 1	VA	Internal
	3	0 - 1	PHK	Internal
	4	0 - 1	Bw	Internal
	5	0 - 1	Puffer	Internal
	6	0 - 1	Reserve	--
	7	0 - 1	Reserve	--
	8 - 15	0 - 100	1%	Reduction heat output as a percentage

6.2.8 ProzZwangEM

Write — No function

Read — For process signal ProzZwangEM, the source master extends or increases the current heat output of the consumer throughout the LPB network.

This signal is generated from available signals of the source (overrun, overheating protection).

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 507) Forced signal source master
42022	0 – 7	0-255	-	Attributes
	0	0 - 1	G	1 = The forced signal is valid
	1	0 - 1	T	1 = Forced to all consumers ¦ 0 = Demand overrun only
	2	0 - 1	P	Internal
	3	0 - 1	N	Internal
	4	0 - 1	HKN	Internal
	5	0 - 1	HKM	Internal
	6	0 - 1	Bw	Internal
	7	0 - 1	Puffer	Internal
	8 - 15	0 - 100	1%	Increase in heat output as a percentage as needed

6.2.9 StatVM

Write — No function

Read — Process signal StatVM provides the current status of the buffer storage tank.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 522) Status consumer master
42023	0-15	0-65535	-	Attributes
	0	0 - 1	G	1 = Signal valid
	1	0 - 1	PufferVor	1 = Buffer available
	2	0 - 1	ErzAnf	1 = Source demand active
	3	0 - 1	PufferBer	1 = Buffer heated
	4	0 - 1	PufferKa	1 = Buffer cold
	5	0 - 1	Eco	Internal
	6	0 - 1	StByRh	Internal
	7	0 - 1	StByAll	Internal
	8	0 - 1	Zubringer	Internal
	9	0 - 1	Hk	Internal
	10	0 - 1	AEB	Internal
	11	0 - 1	PufferMin	Internal
	12	0 - 1	KühlBetr	Internal
	13	0 - 1	SperrLe	Internal
	14	0 - 1	--	Internal
	15	0 - 1	--	Internal

6.2.10 ProzSperrVM

Write — No function

Read — For process signal ProzSperrVM, the consumer master reduces the current heat output of the consumer on its own LPB segment.

This signal is used, for example, for absolute DHW priority or for buffer stratification protection.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 504) Lock signal consumer master
42024	0 – 7	0-255	-	Attribute
	0	0 - 1	G	1 = Reduction signal is valid
	1	0 - 1	T	1 = Reduction is mandatory
	2	0 - 1	VA	internal
	3	0 - 1	PHK	internal
	4	0 - 1	Bw	internal
	5	0 - 1	Puffer	internal
	6	0 - 1	Reserve	--
	7	0 - 1	Reserve	--
	8 - 15	0 - 100	1%	Reduction in heat output as a percentage

6.2.11 ProzZwangVM

Write — No function

Read — For process signal ProzZwangVM, the source master extends or increased the current heat output of the consumer on its own segment.

The signal is used, for example, for the overrun of auxiliary source K27/K32 or for buffer return cooling.

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning (object LPB 507) Forced signal consumer master
42025	0 – 7	0-255	-	Attribute
	0	0 - 1	G	1 = The forced signal is valid
	1	0 - 1	T	1 = Forced to all consumers ¦ 0 = Overrun only
	2	0 - 1	P	Internal
	3	0 - 1	N	Internal
	4	0 - 1	HKN	Internal
	5	0 - 1	HKM	Internal
	6	0 - 1	Bw	Internal
	7	0 - 1	Puffer	Internal
	8 - 15	0 - 100	1%	Increase in heat output as a percentage as needed

6.2.12 TempAnfoVeRhExt (1…3)

Write

The process signal TempAnfoVeRhExt calculates heat demand for internal heating circuits HC1, HC2 or HC3 from an external source.
The external calculation (via Modbus) takes the place of the internal heating curve calculation or room control.

Important: To activate external demand, you must set the configuration parameter "Room controller heating circuit (x)" = "External".

The internal heating circuit pump control as well as the internal mixing control can be used.

Read

No function

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning Heat demand heating circuit 1, 2, and 3
42073	0-15	0-140	1/64 °C	Heat demand for heating circuit 1
42074	0-15 0 1-15	0 – 65535 0-1 --	- G --	Attribute 1 = Heat demand for heating circuit 1 is valid internal
42075	0-15	0-140	1/64 °C	Heat demand for heating circuit 2
42076	0-15 0 1-15	0 – 65535 0-1 --	- G --	Attribute 1 = Heat demand for heating circuit 2 is valid internal
42077	0-15	0-140	1/64 °C	Heat demand for heating circuit 3
42078	0-15 0 1-15	0 – 65535 0-1 --	- G --	Attribute 1 = Heat demand for heating circuit 3 is valid internal

6.2.13 TempAnfoVeRkExt

Write

Process signal TempAnfoVeRkExt calculates cooling demand for internal cooling circuit 1 from an external source.
The external calculation (via Modbus) takes the place of the internal cooling curve calculation or room control.

Important: To active this external demand, you must set the configuration parameter "Room controller cooling circuit 1" = "External".

The internal pump control as well as internal mixing control can be used.

Read

No function

Address (decimal)	Bits 0=LSB, 15=MSB	Range	Unit / Bit name	Meaning Cooling demand cooling circuit 1
42079	0-15	0-140	1/64 °C	Cooling demand for cooling circuit 1
42080	0-15 0 1-15	0 – 65535 0-1 --	- G --	Attribute 1 = Cooling demand for cooling circuit 1is valid internal

6.2.14 Status display

The status display is also supported for external demand.

Status messages are displayed based on the configured functions and current status.

7 Modbus protocol description

Modbus properties	**Albatros2 controller** (default value in **bold face**)
Terminals	3-pin screw connection (A+, B-, REF) on Modbus clip-in OCI35x
Connection type	RS485
Termination	Terminal resistance using DIP switch on Modbus clip-in OCI35x
Modbus version www.modbus.org	• "Modbus Application Protocol Specification V1.1b" • "Modbus over Serial Line V1.02"
Modbus mode	RTU
Modbus role	Depending on the controller: Slave / Master
Slave address	**1**...247
Baud rate	Adjustable: See controller manual
Start bit	1
Data bit	8
Stop bit	**1** or 2
Parity	**Even**/Odd/None
Modbus function codes	0x03 Read Holding Registers
	0x06 Write Single Register (not for structured data types)
	0x10 Write Multiple Registers
Broadcast	Not supported
Data register	2 byte
Coding	MSB (Most significant Byte) first
Telegram length	Maximum 44 data bytes
Response timeout	Default: 300 ms Adjustable from 100…10,000 ms

Siemens Schweiz AG
Building Technologies Division
International Headquarters
Theilerstrasse 1a
6300 Zug
Switzerland
Tel. +41 58 724 24 24
www.siemens.com/buildingtechnologies