

Column1	Column3	Column4	Column5	Column6	Column7	Column12	Column13	Column14	Column15	Column19
# keyname	object-name	object-type	object-instance	description	present-value-default	hi-limit	low-limit	state-text-reference	unit-code	ReadWriteCommandable
Analog Variable 1	outside temperature (R1)	2	1	outside temperature (R1)	0.000000	0.000000	0.000000		62	R
Analog Variable 2	return temperature (R2)	2	2	return temperature (R2)	0.000000	0.000000	0.000000		62	R
Analog Variable 3	domestic hot water temperature (R3)	2	3	domestic hot water temperature (R3)	0.000000	0.000000	0.000000		62	R
Analog Variable 4	AOD4	2	4	none	0.000000	0.000000	0.000000		95	R
Analog Variable 5	flow temperature (R9)	2	5	flow temperature (R9)	0.000000	0.000000	0.000000		62	R
Analog Variable 6	heat source entry (R24)	2	6	heat source entry (R24)	0.000000	0.000000	0.000000		62	R
Analog Variable 7	heat source outlet (R6)	2	7	heat source outlet (R6)	0.000000	0.000000	0.000000		95	R
Analog Variable 8	high pressure	2	8	high pressure	0.000000	0.000000	0.000000		55	R
Analog Variable 9	temperature heating circuit 2 (R5)	2	9	temperature heating circuit 2 (R5)	0.000000	0.000000	0.000000		62	R
Analog Variable 10	temperature heating circuit 3	2	10	temperature heating circuit 3 (R13)	0.000000	0.000000	0.000000		62	R
Analog Variable 11	room temperature 1 / RT-RTH Econ	2	11	room temperature 1 / RT-RTH Econ	0.000000	0.000000	0.000000		62	R
Analog Variable 12	room temperature 2	2	12	room temperature 2	0.000000	0.000000	0.000000		62	R
Analog Variable 13	room humidity 1 / RT-RTH Econ	2	13	room humidity 1 / RT-RTH Econ	0.000000	0.000000	0.000000		29	R
Analog Variable 14	room humidity 2	2	14	room humidity 2	0.000000	0.000000	0.000000		29	R
Analog Variable 19	flow temperature (R11) passive cooling	2	19	flow temperature (R11) passive cooling	0.000000	0.000000	0.000000		62	R
Analog Variable 20	return temperature (R4) passive cooling	2	20	return temperature (R4) passive cooling	0.000000	0.000000	0.000000		62	R
Analog Variable 21	return temperature primary circuit	2	21	return temperature primary circuit	0.000000	0.000000	0.000000		62	R
Analog Variable 31	speed fan/primary pump	2	31	speed fan/primary pump	0.000000	0.000000	0.000000		104	R
Analog Variable 45	heat pump type	2	45	heat pump type	0.000000	0.000000	0.000000		95	R
Analog Variable 46	room temperature heating circuit 1	2	46	room temperature heating circuit 1	20.000.000	30.000.000	15.000.000		62	W
Analog Variable 47	hysteresis heating circuit 1	2	47	hysteresis heating circuit 1	2.000.000	5.000.000	0.500000		63	W
Analog Variable 48	mixer hysteresis 2nd heat generator	2	48	mixer hysteresis 2nd heat generator	0.500000	2.000.000	0.500000		63	W
Analog Variable 53	return set temperature (heat/cool)	2	53	return set temperature (heat/cool)	0.000000	0.000000	0.000000		62	R
Analog Variable 54	set temperature heating circuit 2	2	54	set temperature heating circuit 2	0.000000	0.000000	0.000000		62	R
Analog Variable 55	set temperature heating circuit 3	2	55	set temperature heating circuit 3	0.000000	0.000000	0.000000		62	R
Analog Variable 56	minimal temperature heating circuit 2	2	56	minimal temperature heating circuit 2	0.000000	0.000000	0.000000		62	R
Analog Variable 57	minimal temperature heating circuit 2	2	57	minimal temperature heating circuit 2	0.000000	0.000000	0.000000		62	R
Analog Variable 58	current domestic hot water set temperature	2	58	current domestic hot water set temperature	0.000000	0.000000	0.000000		62	R
Analog Variable 60	performance level heating	2	60	performance level heating	0.000000	0.000000	0.000000		95	R
Analog Variable 61	performance level cooling	2	61	performance level cooling	0.000000	0.000000	0.000000		95	R
Analog Variable 62	software heating Bios	2	62	software heating Bios	0.000000	0.000000	0.000000		95	R
Analog Variable 63	software heating Boot	2	63	software heating Boot	0.000000	0.000000	0.000000		95	R
Analog Variable 64	software heating	2	64	software heating	0.000000	0.000000	0.000000		95	R
Analog Variable 71	runtime auxiliary circulating pump	2	71	runtime auxiliary circulating pump	0.000000	0.000000	0.000000		71	R
Analog Variable 72	runtime compressor 1	2	72	runtime compressor 1	0.000000	0.000000	0.000000		71	R
Analog Variable 73	runtime compressor 2	2	73	runtime compressor 2	0.000000	0.000000	0.000000		71	R
Analog Variable 74	runtime primary pump /fan (M11)	2	74	runtime primary pump /fan (M11)	0.000000	0.000000	0.000000		71	R
Analog Variable 75	runtime 2nd heat generator (E10)	2	75	runtime 2nd heat generator (E10)	0.000000	0.000000	0.000000		71	R
Analog Variable 76	runtime heating pump (M13)	2	76	runtime heating pump (M13)	0.000000	0.000000	0.000000		71	R
Analog Variable 77	runtime domestic hot water pump (M18)	2	77	runtime domestic hot water pump (M18)	0.000000	0.000000	0.000000		71	R
Analog Variable 78	runtime flange heater (E9)	2	78	runtime flange heater (E9)	0.000000	0.000000	0.000000		71	R
Analog Variable 79	runtime swimming pool pump (M19)	2	79	runtime swimming pool pump (M19)	0.000000	0.000000	0.000000		71	R
Analog Variable 80	runtime internal 4-way valve	2	80	runtime internal 4-way valve	0.000000	2.000.000	0.000000		71	R
Analog Variable 96	passive cooling hysteresis	2	96	passive cooling hysteresis	2.000.000	9.900.000	1.000000		63	W
Analog Variable 101	low pressure	2	101	low pressure	0.000000	0.000000	0.000000		55	R
Analog Variable 103	status messages	2	103	status messages	0.000000	0.000000	0.000000	103	95	R
Analog Variable 104	block messages	2	104	block messages	0.000000	0.000000	0.000000	104	95	R
Analog Variable 105	fault messages	2	105	fault messages	0.000000	0.000000	0.000000	105	95	R
Analog Variable 106	sensor messages	2	106	sensor messages	0.000000	0.000000	0.000000	106	95	R
Analog Variable 112	outside temperature over BMS	2	112	outside temperature over BMS	0.000000	99.000.000	-99.000.000		95	W
Analog Variable 129	external block (BMS)	2	129	external block (BMS)	0.000000	11.000000	0.000000	129	95	W
Integer Variable 1	operating mode	2	1001	operating mode	1.000.000	4.000.000	0.000000	1001	95	W
Integer Variable 4	display time modus	2	1004	display time modus	0.000000	0.000000	0.000000	1004	95	W
Integer Variable 5	hour	2	1005	hour	0.000000	23.000.000	0.000000		71	W
Integer Variable 6	minute	2	1006	minute	0.000000	59.000.000	0.000000		72	W
Integer Variable 7	month	2	1007	month	0.000000	12.000.000	1.000.000		68	W
Integer Variable 8	weekday	2	1008	weekday	0.000000	7.000.000	1.000.000	1008	95	W
Integer Variable 9	day	2	1009	day	0.000000	31.000.000	1.000.000		70	W
Integer Variable 10	year	2	1010	year	0.000000	99.000.000	0.000000		67	W
Integer Variable 14	operating mode	2	1014	operating mode	0.000000			1014	95	W
Integer Variable 19	limit temperature parallel	2	1019	limit temperature parallel	-5.000.000	20.000.000	-20.000.000		62	W
Integer Variable 20	mixer runtime heating circuit 1	2	1020	mixer runtime heating circuit 1	4.000.000	6.000.000	1.000.000		72	W
Integer Variable 21	utility block	2	1021	utility block	1.000.000	3.000.000	1.000.000	1020	95	W
Integer Variable 22	limit temperature EVU3	2	1022	limit temperature EVU3	0.000000	10.000.000	-10.000.000		62	W
Integer Variable 23	overtemperature heating bivalent-renewable	2	1023	overtemperature heating bivalent-renewable	10.000.000	20.000.000	2.000.000		63	W
Integer Variable 24	overtemperature domestic hot water bivalent-renewable	2	1024	overtemperature domestic hot water bivalent-renewable	5.000.000	10.000.000	2.000.000		63	W
Integer Variable 25	overtemperature swimming pool bivalent-renewable	2	1025	overtemperature swimming pool bivalent-renewable	35.000.000	50.000.000	10.000.000		63	W
Integer Variable 35	parallel shift	2	1035	parallel shift	19.000.000	38.000.000	0.000000	1035	95	W
Integer Variable 36	fixed-setpoint temperature	2	1036	fixed-setpoint temperature	40.000.000	60.000.000	18.000.000		62	W
Integer Variable 37	heating curve end point	2	1037	heating curve end point	30.000.000	70.000.000	20.000.000		95	W
Integer Variable 38	return maximum temperature	2	1038	return maximum temperature	50.000.000	70.000.000	25.000.000		62	W
Integer Variable 40	return minimum temperature	2	1040	return minimum temperature	30.000.000	30.000.000	18.000.000		62	W
Integer Variable 41	room control i-share	2	1041	room control i-share	480.000.000	999.000.000	1.000.000		95	W
Integer Variable 42	set value dyn. cooling bei 15°C	2	1042	set value dyn. cooling bei 15°C	15.000.000	30.000.000	10.000.000		62	W
Integer Variable 43	operating limit cooling	2	1043	operating limit cooling	3.000.000	0.000000	0.000000		62	W
Integer Variable 44	hysteresis domestic hot water	2	1044	hysteresis domestic hot water	7.000.000	15.000.000	2.000.000		63	W
Integer Variable 45	limit temperature compressor 2 domestic hot water	2	1045	limit temperature compressor 2 domestic hot water	-20.000.000	35.000.000	-30.000.000		62	W
Integer Variable 46	domestic hot water set temperature	2	1046	domestic hot water set temperature	50.000.000	85.000.000	30.000.000		62	W
Integer Variable 47	domestic hot water maximal temperature	2	1047	domestic hot water maximal temperature	60.000.000	85.000.000	30.000.000		62	W
Integer Variable 55	heating-up maximal temperature	2	1055	heating-up maximal temperature	40.000.000	50.000.000	25.000.000		62	W
Integer Variable 56	heating-up period	2	1056	heating-up period	24.000.000	120.000.000	1.000.000		71	W
Integer Variable 57	maintaining time	2	1057	maintaining time	24.000.000	480.000.000	1.000.000		71	W
Integer Variable 58	heating-down period	2	1058	heating-down period	24.000.000	120.000.000	1.000.000		71	W
Integer Variable 59	temperature difference heating-down	2	1059	temperature difference heating-down	5.000.000	0.000000	0.000000		63	W
Integer Variable 60	temperature difference heating-up	2	1060	temperature difference heating-up	5.000.000	0.000000	0.000000		63	W
Integer Variable 95	thermal energy heating 1-4	2	1095	thermal energy heating 1-4	0.000000	0.000000	0.000000		19	R
Integer Variable 96	thermal energy heating 5-8	2	1096	thermal energy heating 5-8	0.000000	0.000000	0.000000		19	R
Integer Variable 97	thermal energy heating 9-12	2	1097	thermal energy heating 9-12	0.000000	0.000000	0.000000		19	R
Integer Variable 98	thermal energy domestic hot water 1-4	2	1098	thermal energy domestic hot water 1-4	0.000000	0.000000	0.000000		19	R
Integer Variable 99	thermal energy domestic hot water 5-8	2	1099	thermal energy domestic hot water 5-8	0.000000	0.000000	0.000000		19	R
Integer Variable 100	thermal energy domestic hot water 9-12	2	1100	thermal energy domestic hot water 9-12	0.000000	0.000000	0.000000		19	R
Integer Variable 101	thermal energy swimming pool 1-4	2	1101	thermal energy swimming pool 1-4	0.000000	0.000000	0.000000		19	R
Integer Variable 102	thermal energy swimming pool 5-8	2	1102	thermal energy swimming pool 5-8	0.000000	0.000000	0.000000		19	R
Integer Variable 103	thermal energy swimming pool 9-12	2	1103	thermal energy swimming pool 9-12	0.000000	0.000000	0.000000		19	R
Integer Variable 109	limit temperature compressor 2 heating	2	1109	limit temperature compressor 2 heating	55.000.000	0.000000	0.000000		62	W
Integer Variable 117	selection heating circuit 1	2	1117	selection heating circuit 1	1.000.000	0.000000	0.000000		95	W
Integer Variable 118	selection heating circuit 2	2	1118	selection heating circuit 2	0.000000				95	W
Integer Variable 119	selection heating circuit 3	2	1119	selection heating circuit 3	0.000000				95	W
Integer Variable 125	limit temperature alternativ 2nd heat generator	2	1125	limit temperature alternativ 2nd heat generator	-22.000.000	0.000000	0.000000		62	W
Integer Variable 126	environmental energy 1-4	2	1126	environmental energy 1-4	0.000000	0.000000	0.000000		19	R
Integer Variable 127	environmental energy 5-8	2	1127	environmental energy 5-8	18.000.000	0.000000	0.000000		19	R
Integer Variable 128	environmental energy 9-12	2	1128	environmental energy 9-12	0.000000	0.000000	0.000000		19	R
Integer Variable 133	set value dyn. cooling bei 35°C	2	1133	set value dyn. cooling bei 35°C	15.000.000	0.000000	0.000000		62	W
Integer Variable 165	limit temperature pump optimisation	2	1165	limit temperature pump optimisation	20.000.000	35.000.000	-15.000.000		95	R
Digital Variable 3	domestic hot water-demand thermostat	5	3	domestic hot water-demand thermostat	0	0	0	1	95	R
Digital Variable 4	swimming pool-demand thermostat	5	4	swimming pool-demand thermostat	0	0	0	1	95	R
Digital Variable 5	utility block	5	5	utility block	0	0	0	4	95	R
Digital Variable 6	extern block	5	6	extern block	0	0	0	4	95	R
Digital Variable 7	fault primary circuit	5	7	fault primary circuit	0	0	0	?	95	R
Digital Variable 8	fault load circuit	5	8	fault load circuit	0	0	0	?	95	R
Digital Variable 9	defrost end pressure switch	5	9	defrost end pressure switch	0	0	0	?	95	R
Digital Variable 10	flow rate switch primary	5	10	flow rate switch primary	0	0	0	?	95	R
Digital Variable 11	low pressure brine	5	11	low pressure brine	0	0	0	?	95	R
Digital Variable 12	hot gas thermostat	5	12	hot gas thermostat	0	0	0	?	95	R
Digital Variable 15	high pressure pressostat	5	15	high pressure pressostat	0	0	0	?	95	R
Digital Variable 16	low pressure pressostat	5	16	low pressure pressostat	0	0	0	?	95	R
Digital Variable 17	flow rate switch secondary	5	17	flow rate switch secondary	0	0				

Status Analog Variable 103

Value	Description	
	L software	
0	Off	
1	Off	
2	Heat	
3	swimming pool	
4	Hot water	
5	Cool	
6		
7		
8		
9		
10	Defrost	
11	Flow monitoring	
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24	Operating mode switchover delay	
25		
26		
27		
28		
29		

Block Analog Variable 104

Value	Description	
	L software	
0		
1		
2	Volume flow	
3		
4		
5	Function control	
6	Application limit HT	
7	System control	
8	Cooling switchover delay	

9	Pump feed		
10	Minimum service life		
11	Network load		
12	Switching cycle lock		
13	Hot water reheating		
14	Regenerative		
15	EVU lock		
16	Soft starter		
17	Flow		
18	Application limit heat pump		
19	High pressure		
20	Low pressure		
21	Application limit heat source		
23	System limit		
24	Load primary circuit		
25	External lock		
33	EvD initialization		
34	2. Heat generator released		
35	Fault (see value for fault messages)		
36			
37			
38			
39			
40			
41			
42			
43			
Fault messages Analog Variable 105			
Value		Description	
		L software	
0	no fault		
1	Error N17.1		
2	Error N17.2		
3	Error N17.3		
4	Error N17.4		
5			
6	Electronic Ex valve		
7			
8			
9			
10	WPIO		

11		
12	Inverter	
13	WQIF	
14		
15	Sensors	
16	Low pressure brine	
17		
19	! Primary circuit	
20	! Defrost	
21	! Low pressure brine	
22	! Hot water	
23	! Load compressor	
24	! Coding	
25	! Low pressure	
26	! Frost protection	
28	! High pressure	
29	! Temperature difference	
30	! Hot gas thermostat	
31	! Flow	