

Communication protocoll



MOD BUS

Boiler P4

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Digital OutputsFunction: Read Coil Status (FC=01)
Address Range: 00001-00158

Adr.	Description	Unit	Scale
	Heating circuit pump 1		1
00002	Heating circuit pump 2		1
	Heating Circuit 1 Mixer OPEN 1		1
	Heating Circuit 1 Mixer CLOSED 1		1
	Heating Circuit Mixer OPEN 2		1
	Heating Circuit Mixer CLOSED 2		1
	Lambda probe heating		1
	Burner relay		1
00009	Heating circuit pump 0		1
00011	Primary air flap CLOSED		1
	Standby relay		1
	Ash screw manual		1
00016	Pellet suction fan		1
00017	WOS-drive		1
	Open grate		1
	Close grate		1
00020	Ignition		1
00021	Fault message		1
00022	BBF manual		1
00024	Room air flap		1
00026	Heating circuit pump 3		1
00027	Heating circuit pump 4		1
00028	Heating Circuit Mixer OPEN 3		1
00029	Heating Circuit Mixer CLOSED 3		1
00030	Heating Circuit Mixer OPEN 4		1
00031	Heating Circuit Mixer CLOSED 4		1
00032	Heating circuit pump 5		1
00033	Heating circuit pump 6		1
00034	Heating Circuit Mixer OPEN 5		1
	Heating Circuit Mixer CLOSED 5		1
	Heating Circuit Mixer OPEN 6		1
	Heating Circuit Mixer CLOSED 6		1
	Heating circuit pump 7		1
_	Heating circuit pump 8		1
	Heating Circuit Mixer OPEN 7		1
	Heating Circuit Mixer CLOSED 7		1
	Heating Circuit Mixer OPEN 8		1
	Heating Circuit Mixer CLOSED 8		1
	Heating circuit pump 9		1
	Heating circuit pump 10		1
	Heating Circuit Mixer OPEN 9		1
	Heating Circuit Mixer CLOSED 9		1
	Heating Circuit Mixer OPEN 10		1
	Heating Circuit Mixer CLOSED 10		1
00050	Heating circuit pump 11		1

00051	Heating circuit pump 12	1
	Heating Circuit Mixer OPEN 11	1
	Heating Circuit Mixer CLOSED 11	1
	Heating Circuit Mixer OPEN 12	1
	Heating Circuit Mixer CLOSED 12	1
	Heating circuit pump 13	1
	Heating circuit pump 14	1
00058	Heating Circuit Mixer OPEN 13	1
00059	Heating Circuit Mixer CLOSED 13	1
00060	Heating Circuit Mixer OPEN 14	1
00061	Heating Circuit Mixer CLOSED 14	1
00062	Heating circuit pump 15	1
00063	Heating circuit pump 16	1
00064	Heating Circuit Mixer OPEN 15	1
00065	Heating Circuit Mixer CLOSED 15	1
	Heating Circuit Mixer OPEN 16	1
	Heating Circuit Mixer CLOSED 16	1
	Heating circuit pump 17	1
	Heating circuit pump 18	1
	Heating Circuit Mixer OPEN 17	1
	Heating Circuit Mixer CLOSED 17	1
	Heating Circuit Mixer OPEN 18	1
	Heating Circuit Mixer CLOSED 18	1
00074	Heating flow sensor	1
08000	BBF motor	1
	Vacuum extension reserve DO	1
	Suction turbine 1	1
	Suction turbine 2	1
	Vacuum extension probe 3	1
	Vacuum extension probe 2	1
	Vacuum extension probe 1	1
	CLOSE suction unit slide valve	1
	OPEN suction unit slide valve	1
	PM suction unit safety shutdown	1
	PM reserve OUT 2	1
	Return feed mixer Closed	1
00116	Return feed mixer Open	1
00118	•	1
00119		1
00141	Stoker forwards	1
00142	Stoker backwards	1

Digital Inputs

Function: Read Input Status (FC=02) Address Range: 10001-10086

Adr.	Description	Unit	Scale
10001	Door switch		1
10002	Hi-limit stat input		1
10003	E-stop input		1
10006	MAX level		1
10007	Jam sensor		1
10008	Back-fire slide valve closed		1
10010	Grate open		1
10011	Grate closed		1
10014	Room air flap open		1
10016	Motor protection switch pellet delivery screw		1
10027	Fill level sensor maximum on vacuum extension		1
10028	Fill level sensor minimum on vacuum extension		1
10029	Blockage sensor on vacuum extension		1
10030	Safety ventilation on vacuum extension open		1
10031	Safety ventilation on vacuum extension closed		1
10032	Boiler enable		1
10033	Back-fire slide valve open		1
10034	PM power supply overcurrent switch		1
10035	PM power supply overcurrent warning		1
10036	PM suction unit active		1
10037	PM Dig. in res 2	_	1
10049	Latch input on pellets modul	_	1
10050	MIN level		1

Actual Values

Function: Read Input Registers(FC=04)

Address Range: 30001-30272

Adr.	Description	Unit	Scale	Dec
30001	Boiler temperature	°C	2	1
30002	Flue gas temperature	°C	1	0
30003	Board Temperature	°C	2	1
30004	Residual oxygen content	%	10	1
30005	Outside air temperature	°C	2	1
30008	ID fan speed	U/min	1	0
30009	Sensor 1	°C	2	1
30011	Return sensor	°C	2	1
30012	Flue gas temperature after condenser	°C	2	1
30013	Air speed at suction opening	m/s	100	2
30014	Ignition pipe temperature	°C	1	0
30016	ID fan control	%	1	0
30019	Boiler control variable	%	1	0
30020	Flue gas setpoint	°C	1	0
30022	Actual flow temperature 1	°C	2	1
30023	Flow temperature setpoint 1	°C	2	1

30025	Room temperature 1	°C	2	1
	Actual flow temperature 2	°C	2	1
	Flow temperature setpoint 2	°C	2	1
	Room temperature 2	°C	2	1
	Actual flow temperature 3	°C	2	1
	Flow temperature setpoint 3	°C	2	1
	Room temperature 3	°C	2	1
	Actual flow temperature 4	°C	2	1
	Flow temperature setpoint 4	°C	2	1
	Room temperature 4	°C	2	1
	Actual flow temperature 5	°C	2	1
	Flow temperature setpoint 5	°C	2	1
	Room temperature 5	°C	2	1
	Actual flow temperature 6	°C	2	1
	Flow temperature setpoint 6	_		
	Room temperature 6	°C	2	1
	•	°C	2	1
	Actual flow temperature 7 Flow temperature setpoint 7	°C	2	1
	•	°C	2	1
	Room temperature 7	°C	2	1
	Actual flow temperature 8	°C	2	1
	Flow temperature setpoint 8	°C	2	1
	Room temperature 8	°C	2	1
	Actual flow temperature 9	°C	2	1
	Flow temperature setpoint 9	°C	2	1
	Room temperature 9	°C	2	1
	Actual flow temperature 10	°C	2	1
	Flow temperature setpoint 10	°C	2	1
	Room temperature 10	°C	2	1
	Actual flow temperature 11	°C	2	1
	Flow temperature setpoint 11	°C	2	1
	Room temperature 11	°C	2	1
	Actual flow temperature 12	°C	2	1
	Flow temperature setpoint 12	°C	2	1
	Room temperature 12	°C	2	1
	Actual flow temperature 13	°C	2	1
	Flow temperature setpoint 13	°C	2	1
	Room temperature 13	°C	2	1
30074	Actual flow temperature 14	°C	2	1
	Flow temperature setpoint 14	°C	2	1
30077	Room temperature 14	°C	2	1
	Actual flow temperature 15	°C	2	1
	Flow temperature setpoint 15	°C	2	1
	Room temperature 15	°C	2	1
30082				4
'	Actual flow temperature 16	°C	2	1
30083	Actual flow temperature 16 Flow temperature setpoint 16	°C	2	1
	·	_		
30085	Flow temperature setpoint 16	°C	2	1
30085 30086	Flow temperature setpoint 16 Room temperature 16	°C	2	1
30085 30086 30087	Flow temperature setpoint 16 Room temperature 16 Actual flow temperature 17	°C °C	2 2 2	1 1 1

30091	Flow temperature setpoint 18	°C	2	1
30093	Room temperature 18	°C	2	1
30094	DHW tank top temperature 1	°C	2	1
30095	DHW tank bottom temperature 1	°C	2	1
30096	Pellet module board temperature	°C	2	1
30097	Suction air temperature	°C	2	1
30098	Delivery screw current	A	1000	2
30099	Service hours	h	1	0
30100	DHW tank top temperature 2	°C	2	1
30101	DHW tank bottom temperature 2	°C	2	1
30102	DHW tank top temperature 3	°C	2	1
30103	DHW tank bottom temperature 3	°C	2	1
30104	DHW tank top temperature 4	°C	2	1
30105	DHW tank bottom temperature 4	°C	2	1
30106	DHW tank top temperature 5	°C	2	1
30107	DHW tank bottom temperature 5	°C	2	1
30108	DHW tank top temperature 6	°C	2	1
30109	DHW tank bottom temperature 6	°C	2	1
30110	DHW tank top temperature 7	°C	2	1
30111	DHW tank bottom temperature 7	°C	2	1
30112	DHW tank top temperature 8	°C	2	1
30113	DHW tank bottom temperature 8	°C	2	1
30115	Number of burner starts		1	0
30117	Feed	%	1	0
30118	Oxygen control	%	1	0
30119	storage tank top temperature 1	°C	2	1
30120	storage tank middle temperature 1	°C	2	1
30121	storage tank bottom temperature 1	°C	2	1
30122	storage tank top temperature 2	°C	2	1
30123	storage tank middle temperature 2	°C	2	1
30124	storage tank bottom temperature 2	°C	2	1
30125	storage tank top temperature 3	°C	2	1
30126	storage tank middle temperature 3	°C	2	1
30127	storage tank bottom temperature 3	°C	2	1
30128	storage tank top temperature 4	°C	2	1
30129	storage tank middle temperature 4	°C	2	1
30130	storage tank bottom temperature 4	°C	2	1
30139	Calculated boiler setpoint	°C	2	1
30140	Solar temperature storage tank bottom	°C	2	1
30141	Store pump control 1	%	1	0
30142	Store pump control 2	%	1	0
30143	Store pump control 3	%	1	0
30144	Store pump control 4	%	1	0
30145	DHW tank pump control 1	%	1	0
30146	DHW tank pump control 2	%	1	0
30147	DHW tank pump control 3	%	1	0
30148	DHW tank pump control 4	%	1	0
30149	DHW tank pump control 5	%	1	0
30150	DHW tank pump control 6	%	1	0
30151	DHW tank pump control 7	%	1	0

30152	DHW tank pump control 8	%	1	0
	Collector pump control	%	1	0
	Slide valve position	%	10	1
	Current status runtime	70	1	0
	Maximum status runtime		1	0
	Network pump speed	%	1	0
	Network return temperature	°C	2	1
	Stoker screw service hours	h	1	0
	Feed screw service hours	h	1	0
	Rotary valve service hours	h	1	0
	Heat exchanger service hours	h	1	0
	Ash screw service hours	h	1	0
00200	Ignition service hours	h	1	0
	Lambda probe service hours	h	1	0
30183	Suction fan(s) service hours	h	1	0
30185	Safety ventilation load cycle	- ''	1	0
30187	BBF load cycle		1	0
30188	Speed, feeder pump 1	%	1	0
	Return temperature feeder 1	°C	2	1
	Speed, feeder pump 2	%	1	0
30191	Return temperature feeder 2	°C	2	1
	Speed, feeder pump 3	%	1	0
	Return temperature feeder 3	°C	2	1
30194	Speed, feeder pump 4	%	1	0
	Return temperature feeder 4	°C	2	1
	Temperature of secondary boiler	°C	2	1
30198	Collector Temperature	°C	2	1
30199	Heat source sensor	°C	2	1
	Heat sink sensor	°C	2	1
	Pump speed	%	1	0
	Speed of the circulation pump	%	1	0
30203	Return temperature in secondary circulation line	°C	2	1
30204	Burner relay status		1	0
	Collector pump runtime	h	1	0
30206	Collector return temperature	°C	2	1
	'			
30207	Heat exchanger sec. return temperature (line to storage tank)	°C	2	1
30208	Pump between heat exchanger and storage tank	%	1	0
30209	Pump between heat exchanger and DHW tank	%	1	0
30210	Diverter valve for top/bottom coils	%	1	0
30211	Flow switch on the domestic hot water line		2	1
30212	Lambda probe voltage	mV	100	2
30213	Ignition service hours	h	1	0
30214	Hours since last maintenance	h	1	0
30215	Boiler request via heating circuit or DHW tank pending		1	0
30220	P4 Pellet skim pump	%	1	0
30221	Lambda probe voltage korrigiert	mV	100	2
30222	Hours of heating	h	1	0
30224	Sensor deflector top	°C	2	1
30225	Sensor deflector bottom	°C	2	1

30226	Store charge	%	1	0
30228	Backup boiler boiler temperature 1	°C	2	1
30229	Backup boiler boiler temperature 2	°C	2	1
30230	Backup boiler boiler temperature 3	°C	2	1
30231	Backup boiler OK 1		1	0
30232	Backup boiler OK 2		1	0
30233	Backup boiler OK 3		1	0
30234	Backup boiler is heating 1		1	0
30235	Backup boiler is heating 2		1	0
30236	Backup boiler is heating 3		1	0
30237	Backup boiler control variable 1	%	1	0
30238	Backup boiler control variable 2	%	1	0
30239	Backup boiler control variable 3	%	1	0
30240	Boiler charging pump speed	%	1	0
30241	Boiler charging pump speed 1	%	1	0
30242	Boiler charging pump speed 2	%	1	0
30243	Boiler charging pump speed 3	%	1	0
30244	Broadband probe heating current	Α	1000	2
30245	Broadband probe heating voltage	V	1000	2
30246	Broadband probe Nernst voltage	V	1000	3
30247	Broadband probe pump current	mV	1000	3
30248	Broadband probe internal resistance	R	1	0
30250	DHW tank bottom temperature	°C	2	1
30255	Hours in partial load (Boiler control variable < 40 %)	h	1	0
30264	Actual power from solar heat meter [kW]		100	2
30266	Hours of boiler 2 (burner relays)	h	1	0

Parameters

Function: Read Holding Registers(FC=03) Address Range: 40001-41094

Adr.	Description	Unit	Scale	Dec	Min	Max
	Shutdown if current boiler temperature is higher than boiler					
40001	setpoint +	°C	2	0	2	20
40004	Maximum flue gas temperature	°C	1	0	85	300
	Minimum difference between flue gas- and boiler temperature in					
40005	HEATING	°C	1	0	0	50
40009	Always switch off at maximum boiler setpoint +	°C	2	0	0	20
40023	ID fan min	%	1	0	0	95
40024	ID fan max	%	1	0	0	95
40033	Minimum loading rate	%	1	0	0	100
40034	O2 Controller max	%	1	0	0	250
40035	Influencing factor for O2 controller		100	2	0	10
40040	No feed when residual O2 below	%	10	1	0	21
40041	Boiler output at flue gas temperature of 20°C	%	1	0	0	100
40042	100% boiler output from a flue gas temperature of	°C	1	0	0	300
40045	Minimum ID fan speed	%	1	0	0	100
40048	Feed time before ignition	S	1	0	0	1000
40049	Duration of pre-heating	S	1	0	0	1000

40050	Thus and Thus and difference for start process	0.0	l _		_	100
40050	Flue gas - Flue gas difference for start process	°C	1	0	0	100
40051	Maximum ignition duration	min	60	0	0	500
40052	Shutdown wait 1	min	60	0	0	500
40053	Shutdown wait 2	min	60	0	0	500
40054	Safety time	min	60	0	0	500
	ID fan during heating up	%	1	0	0	100
	ID fan during pre-heating	%	1	0	0	100
40057	Slide-in during ignition	%	1	0	0	100
	ID fan during shutdown	%	1	0	0	100
40059	ID fan during Ignition	%	1	0	0	100
40060	WOS runtime	S	1	0	0	900
40061	Start of 1st pellet filling		1	0	0	2400
40062	Preliminary suction time	S	1	0	0	900
40063	Screw cycle	S	1	0	20	400
40064	Suction run-on	S	1	0	0	900
40065	Refill of cyclone from	%	207	0	0	100
40067	Minimum return temperature	°C	2	0	55	90
40074	Mixer runtime	S	1	0	0	1000
40075	Heating circuit overheat in variable mode	°C	2	0	0	100
40076	Variable mode activated		1	0	0	1
	Heating circuit 01					
40077	Desired room temperature during heating mode	°C	2	0	10	30
40078	Desired room temperature during setback mode	°C	2	0	10	30
40079	Controller gain room temperature Kp-Rm		10	1	0	20
40080	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40081	off in heating mode	°C	2	0	-20	50
	External temperature, at which heating circuit pump switches		_	_		
40082	off in setback mode	°C	2	0	-20	50
40083	Maximum heating circuit flow temperature	°C	2	0	20	110
40086	Mixer runtime	S	1	0	30	600
40087	Frost protection temperature	°C	2	0	-10	20
40088	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40089	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 02					
40091	Desired room temperature during heating mode	°C	2	0	10	30
40092	Desired room temperature during setback mode	°C	2	0	10	30
40093	Controller gain room temperature Kp-Rm		10	1	0	20
40094	Reduction of flow temperature in setback mode	°C	2	0	0	70
4000=	External temperature, at which heating circuit pump switches					
40095	off in heating mode External temperature, at which heating circuit pump switches	°C	2	0	-20	50
40096	off in setback mode	°C	2	0	-20	50
40090	Maximum heating circuit flow temperature	°C	2	0	20	110
40097	Mixer runtime			0	30	600
	Frost protection temperature	°C	1	1		
40101	·		2	0	-10	20
40102	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40103	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
40105	Heating circuit 03	20	_	_	10	20
40105	Desired room temperature during heating mode	°C	2	0	10	30
40106	Desired room temperature during setback mode	°C	2	0	10	30

40107	Controller gain room temperature Kp-Rm		10	1	0	20
40108	Reduction of flow temperature in setback mode	°C	2	0	0	70
+0100	External temperature, at which heating circuit pump switches				0	70
40109	off in heating mode	°C	2	0	-20	50
	External temperature, at which heating circuit pump switches					
40110	off in setback mode	°C	2	0	-20	50
40111	Maximum heating circuit flow temperature	°C	2	0	20	110
40114	Mixer runtime	S	1	0	30	600
40115	Frost protection temperature	°C	2	0	-10	20
40116	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40117	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 04					
40119	Desired room temperature during heating mode	°C	2	0	10	30
40120	Desired room temperature during setback mode	°C	2	0	10	30
40121	Controller gain room temperature Kp-Rm		10	1	0	20
40122	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches				_	
40123	off in heating mode	°C	2	0	-20	50
	External temperature, at which heating circuit pump switches					
40124	off in setback mode	°C	2	0	-20	50
40125	Maximum heating circuit flow temperature	°C	2	0	20	110
40128	Mixer runtime	S	1	0	30	600
40129	Frost protection temperature	°C	2	0	-10	20
40130	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40131	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 05					
40133	Desired room temperature during heating mode	°C	2	0	10	30
40134	Desired room temperature during setback mode	°C	2	0	10	30
40135	Controller gain room temperature Kp-Rm		10	1	0	20
40136	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40137	off in heating mode	°C	2	0	-20	50
40420	External temperature, at which heating circuit pump switches	0.0	_		20	F0
40138	off in setback mode	°C	2	0	-20	50
40139	Maximum heating circuit flow temperature	°C	2	0	20	110
40142	Mixer runtime	S	1	0	30	600
	Frost protection temperature	°C	2	0	-10	20
40144	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40145	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 06					
40147	Desired room temperature during heating mode	°C	2	0	10	30
40148	Desired room temperature during setback mode	°C	2	0	10	30
40149	Controller gain room temperature Kp-Rm		10	1	0	20
40150	Reduction of flow temperature in setback mode	°C	2	0	0	70
40454	External temperature, at which heating circuit pump switches					
40151	off in heating mode External temperature, at which heating circuit pump switches	°C	2	0	-20	50
40152	off in setback mode	°C	2	0	-20	50
40152	Maximum heating circuit flow temperature	°C	2	0	20	110
40153	Mixer runtime				30	600
	Frost protection temperature	°C	1	0		
40157	Flow temperature SP at external temperature of -10°C		2	0	-10	20
40158	I low temperature or at external temperature of -10°C	°C	2	0	10	110

40450	Flour towns with the CD at automost towns at 1000	1 00			40	440
40159	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 07					
40161	Desired room temperature during heating mode	°C	2	0	10	30
40162	Desired room temperature during setback mode	°C	2	0	10	30
40163	Controller gain room temperature Kp-Rm		10	1	0	20
40164	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches			_		l
40165	off in heating mode External temperature, at which heating circuit pump switches	°C	2	0	-20	50
40166	off in setback mode	°C	2	_	-20	50
40166	Maximum heating circuit flow temperature	°C	2	0	20	
	Mixer runtime			0		110
40170		S	1		30	600
40171	Frost protection temperature	°C	2	0	-10	20
40172	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40173	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 08					
40175	Desired room temperature during heating mode	°C	2	0	10	30
40176	Desired room temperature during setback mode	°C	2	0	10	30
40177	Controller gain room temperature Kp-Rm		10	1	0	20
40178	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40179	off in heating mode	°C	2	0	-20	50
40400	External temperature, at which heating circuit pump switches	0.0	-		2.0	- 0
40180	off in setback mode	°C	2	0	-20	50
40181	Maximum heating circuit flow temperature	°C	2	0	20	110
40184	Mixer runtime	S	1	0	30	600
40185	Frost protection temperature	°C	2	0	-10	20
40186	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40187	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 09					
40189	Desired room temperature during heating mode	°C	2	0	10	30
40190	Desired room temperature during setback mode	°C	2	0	10	30
40191	Controller gain room temperature Kp-Rm		10	1	0	20
40192	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40193	off in heating mode	°C	2	0	-20	50
40404	External temperature, at which heating circuit pump switches	0.0	-		2.0	50
40194	off in setback mode	°C	2	0	-20	50
40195	Maximum heating circuit flow temperature	°C	2	0	20	110
40198	Mixer runtime	S	1	0	30	600
40199	Frost protection temperature	°C	2	0	-10	20
40200	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40201	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 10					
40203	Desired room temperature during heating mode	°C	2	0	10	30
40204	Desired room temperature during setback mode	°C	2	0	10	30
40205	Controller gain room temperature Kp-Rm		10	1	0	20
40206	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40207	off in heating mode	°C	2	0	-20	50
10555	External temperature, at which heating circuit pump switches		_	_		
40208	off in setback mode	°C	2	0	-20	50

40209 Maximum heating circuit flow te 40212 Mixer runtime 40213 Frost protection temperature 40214 Flow temperature SP at externa 40215 Flow temperature SP at externa Heating circuit 11 40217 Desired room temperature durin 40218 Desired room temperature durin 40219 Controller gain room temperature in External temperature, at which off in heating mode External temperature, at which off in setback mode 40221 Maximum heating circuit flow te 40223 Maximum heating circuit flow te 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature durin 40232 Desired room temperature durin	I temperature of -10°C I temperature of +10°C Ing heating mode Ing setback mode Ing setback mode Ing setback mode Ing setback mode I setback mode I heating circuit pump switches I temperature I temperature of -10°C		2 1 2 2 2 2 10 2 2 2 1 2	0 0 0 0 0 0 0 1 0 0 0	20 30 -10 10 10 10 0 0 -20 -20 20 30	110 600 20 110 110 30 30 20 70 50 50 110 600
40213 Frost protection temperature 40214 Flow temperature SP at externa 40215 Flow temperature SP at externa Heating circuit 11 40217 Desired room temperature durir 40218 Desired room temperature durir 40219 Controller gain room temperature 40220 Reduction of flow temperature in External temperature, at which off in heating mode External temperature, at which off in setback mode 40221 Maximum heating circuit flow te 40223 Maximum heating circuit flow te 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa 40221 Desired room temperature durir 40232 Desired room temperature durir	I temperature of +10°C Ing heating mode Ing setback mode Ing setback mode Ing setback mode Ing setback mode I setback mode I temperature I temperature of -10°C	°C °	2 2 2 2 2 10 2 2 2 2 1 2	0 0 0 0 0 1 0 0 0	-10 10 10 10 10 0 0 -20 -20	20 110 110 30 30 20 70 50 50
40214 Flow temperature SP at externa 40215 Flow temperature SP at externa Heating circuit 11 40217 Desired room temperature durir 40218 Desired room temperature durir 40219 Controller gain room temperature 40220 Reduction of flow temperature in External temperature, at which off in heating mode External temperature, at which off in setback mode 40221 Maximum heating circuit flow te 40223 Maximum heating circuit flow te 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature durir 40232 Desired room temperature durir	I temperature of +10°C Ing heating mode Ing setback mode Ing setback mode Ing setback mode Ing setback mode I setback mode I temperature I temperature of -10°C	°C °	2 2 2 2 10 2 2 2 2 1 2	0 0 0 0 1 0 0	10 10 10 10 0 0 -20 -20	110 110 30 30 20 70 50 50
Heating circuit 11 40217 Desired room temperature during 40218 Desired room temperature during 40219 Controller gain room temperature during 40220 Reduction of flow temperature in External temperature, at which off in heating mode External temperature, at which off in setback mode 40221 Maximum heating circuit flow temperature 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at external 40229 Flow temperature SP at external 40231 Desired room temperature during 40232 Desired room temperature during 40231 Desired room temperature during 40232 Desired room temperature 40232 Desired room tempe	I temperature of +10°C Ing heating mode Ing setback mode Ing setback mode Ing setback mode Ing setback mode I setback mode I temperature I temperature of -10°C	°C °	2 2 10 2 2 2 2 2 1 2	0 0 0 1 0 0 0	10 10 10 0 0 -20 -20	30 30 20 70 50 50
Heating circuit 11 40217 Desired room temperature durin 40218 Desired room temperature durin 40219 Controller gain room temperature in External temperature, at which off in heating mode External temperature, at which off in setback mode 40221 Maximum heating circuit flow temperature in External temperature, at which off in setback mode 40222 Maximum heating circuit flow temperature in External temperature, at which off in setback mode 40223 Maximum heating circuit flow temperature in External temperature, at which off in heating circuit flow temperature in External temperature in External temperature in External temperature, at which off in setback mode 40222 Maximum heating circuit flow temperature 40223 Flow temperature SP at external temperature in External temperature in External temperature in External temperature, at which off in heating circuit flow temperature in External temperature, at which off in heating circuit flow temperature in External temperature, at which off in heating circuit flow temperature in External temperature, at which off in heating circuit flow temperature in External temperature, at which off in heating circuit flow temperature in External temperature, at which off in heating circuit flow temperature in External temperature, at which off in heating circuit flow temperature in External tempera	ng heating mode ng setback mode re Kp-Rm n setback mode heating circuit pump switches heating circuit pump switches emperature	°C °	2 2 10 2 2 2 2 2 1 2	0 0 1 0 0 0	10 10 0 0 -20 -20	30 30 20 70 50 50
40217 Desired room temperature durin 40218 Desired room temperature durin 40219 Controller gain room temperatur 40220 Reduction of flow temperature in External temperature, at which off in heating mode External temperature, at which 40221 off in setback mode 40223 Maximum heating circuit flow te 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa 40229 Flow temperature SP at externa 40231 Desired room temperature durin 40232 Desired room temperature durin	ng setback mode re Kp-Rm n setback mode heating circuit pump switches heating circuit pump switches emperature	°C °	2 10 2 2 2 2 2 1 2	0 1 0 0 0 0	10 0 0 -20 -20	30 20 70 50 50 110
40218 Desired room temperature during 40219 Controller gain room temperature 40220 Reduction of flow temperature in External temperature, at which off in heating mode External temperature, at which 40221 off in setback mode 40223 Maximum heating circuit flow temperature 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at external 40229 Flow temperature SP at external 40229 Flow temperature SP at external 40231 Desired room temperature during 40232 Desired room temperature 40232 Desired room temperature 40232 Desired room temperature 40232 Desired 40232 Desired room temperature 40232 Desired room temperature 40232 Desired room temperature 40232 Desired 4023	ng setback mode re Kp-Rm n setback mode heating circuit pump switches heating circuit pump switches emperature	°C °	2 10 2 2 2 2 2 1 2	0 1 0 0 0 0	10 0 0 -20 -20	30 20 70 50 50 110
40219 Controller gain room temperature 40220 Reduction of flow temperature in External temperature, at which off in heating mode External temperature, at which off in setback mode 40221 Maximum heating circuit flow temperature 40222 Mixer runtime 40223 Frost protection temperature 40224 Flow temperature SP at external 40229 Flow temperature SP at external 40229 Flow temperature SP at external 40221 Desired room temperature durin 40231 Desired room temperature durin	re Kp-Rm n setback mode heating circuit pump switches heating circuit pump switches emperature I temperature of -10°C	°C °	10 2 2 2 2 2 1 2	1 0 0 0 0 0	0 0 -20 -20 20	20 70 50 50 110
40220 Reduction of flow temperature in External temperature, at which off in heating mode External temperature, at which off in setback mode 40221 Maximum heating circuit flow temperature Mixer runtime 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at external Heating circuit 12 40231 Desired room temperature during 40232 Desired room temperature during texts.	n setback mode heating circuit pump switches heating circuit pump switches emperature I temperature of -10°C	°C °C s °C °C	2 2 2 2 1 2	0 0 0 0	-20 -20 20	70 50 50 110
External temperature, at which off in heating mode External temperature, at which off in setback mode 40222 off in setback mode 40223 Maximum heating circuit flow temperature 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at external 40229 Flow temperature SP at external Heating circuit 12 40231 Desired room temperature during 40232 Desired room temperature during	heating circuit pump switches heating circuit pump switches emperature I temperature of -10°C	°C °C s °C °C	2 2 2 1 2	0 0 0 0	-20 -20 20	50 50 110
40221 off in heating mode External temperature, at which 40222 off in setback mode 40223 Maximum heating circuit flow te 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature durir 40232 Desired room temperature durir	heating circuit pump switches emperature I temperature of -10°C	°C °C s	2 2 1 2	0 0 0	-20 20	50 110
External temperature, at which 40222 off in setback mode 40223 Maximum heating circuit flow te 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature durin 40232 Desired room temperature durin	I temperature of -10°C	°C s °C °C	2 2 1 2	0 0 0	-20 20	50 110
40223 Maximum heating circuit flow te 40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature durin 40232 Desired room temperature durin	I temperature of -10°C	°C s °C °C	2 1 2	0	20	110
40226 Mixer runtime 40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature durin 40232 Desired room temperature durin	I temperature of -10°C	s °C °C	1 2	0		
40227 Frost protection temperature 40228 Flow temperature SP at externa 40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature durin 40232 Desired room temperature durin	•	°C	2		30	600
40228 Flow temperature SP at external 40229 Flow temperature SP at external Heating circuit 12 40231 Desired room temperature durin 40232 Desired room temperature durin	•	°C		Ω		
40229 Flow temperature SP at externa Heating circuit 12 40231 Desired room temperature during 40232 Desired room temperature during	•		7	ı	-10	20
Heating circuit 12 40231 Desired room temperature durin 40232 Desired room temperature durin	I temperature of +10°C	°C	2	0	10	110
40231 Desired room temperature durir 40232 Desired room temperature durir		_ ~	2	0	10	110
40232 Desired room temperature during						
·	ng heating mode	°C	2	0	10	30
	ng setback mode	°C	2	0	10	30
40233 Controller gain room temperatu	re Kp-Rm		10	1	0	20
40234 Reduction of flow temperature in	n setback mode	°C	2	0	0	70
External temperature, at which	heating circuit pump switches					
40235 off in heating mode		°C	2	0	-20	50
External temperature, at which	heating circuit pump switches			_		
40236 off in setback mode		°C	2	0	-20	50
40237 Maximum heating circuit flow te	emperature	°C	2	0	20	110
40240 Mixer runtime		S	1	0	30	600
40241 Frost protection temperature	Lhamananahana af 1000	°C	2	0	-10	20
40242 Flow temperature SP at externa		°C	2	0	10	110
40243 Flow temperature SP at externa	temperature of +10°C	°C	2	0	10	110
Heating circuit 13	a a la aptica usa da	0.0			4.0	20
40245 Desired room temperature durin	-	°C	2	0	10	30
40246 Desired room temperature durin		°C	2	0	10	30
40247 Controller gain room temperatu	•		10	1	0	20
40248 Reduction of flow temperature in External temperature, at which		°C	2	0	0	70
40249 off in heating mode	heating circuit pump switches	°C	2	0	-20	50
External temperature, at which	heating circuit pump switches				20	
40250 off in setback mode	3 ' '	°C	2	0	-20	50
40251 Maximum heating circuit flow te	mperature	°C	2	0	20	110
40254 Mixer runtime		S	1	0	30	600
40255 Frost protection temperature		°C	2	0	-10	20
40256 Flow temperature SP at externa	I temperature of -10°C	°C	2	0	10	110
40257 Flow temperature SP at externa	I temperature of +10°C	°C	2	0	10	110
Heating circuit 14	•					
40259 Desired room temperature durir	ng heating mode	°C	2	0	10	30
40260 Desired room temperature durir		°C	2	0	10	30
40261 Controller gain room temperatu			10	1	0	20
40262 Reduction of flow temperature in	•	°C	2	0	0	70

	External temperature, at which heating circuit pump switches	1				
40263	off in heating mode	°C	2	0	-20	50
	External temperature, at which heating circuit pump switches					
40264	off in setback mode	°C	2	0	-20	50
40265	Maximum heating circuit flow temperature	°C	2	0	20	110
40268	Mixer runtime	S	1	0	30	600
40269	Frost protection temperature	°C	2	0	-10	20
40270	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40271	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 15					
40273	Desired room temperature during heating mode	°C	2	0	10	30
40274	Desired room temperature during setback mode	°C	2	0	10	30
40275	Controller gain room temperature Kp-Rm		10	1	0	20
40276	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40277	off in heating mode	°C	2	0	-20	50
	External temperature, at which heating circuit pump switches					
40278	off in setback mode	°C	2	0	-20	50
40279	Maximum heating circuit flow temperature	°C	2	0	20	110
40282	Mixer runtime	S	1	0	30	600
40283	Frost protection temperature	°C	2	0	-10	20
40284	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40285	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 16					
40287	Desired room temperature during heating mode	°C	2	0	10	30
40288	Desired room temperature during setback mode	°C	2	0	10	30
40289	Controller gain room temperature Kp-Rm		10	1	0	20
40290	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40291	off in heating mode	°C	2	0	-20	50
	External temperature, at which heating circuit pump switches		_	_		
40292		°C	2	0	-20	50
40293	Maximum heating circuit flow temperature	°C	2	0	20	110
40296	Mixer runtime	S	1	0	30	600
40297	Frost protection temperature	°C	2	0	-10	20
40298	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40299	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	Heating circuit 17					
40301	Desired room temperature during heating mode	°C	2	0	10	30
40302	Desired room temperature during setback mode	°C	2	0	10	30
40303	Controller gain room temperature Kp-Rm		10	1	0	20
40304	Reduction of flow temperature in setback mode	°C	2	0	0	70
	External temperature, at which heating circuit pump switches					
40305	off in heating mode	°C	2	0	-20	50
40206	External temperature, at which heating circuit pump switches off in setback mode	°C	2	_	20	ΕO
40306			2	0	-20	50
40307	Maximum heating circuit flow temperature	°C	2	0	20	110
40010	Mixer runtime	S	1	0	30	600
40310	Freet protection townsur-time			. /\		20
40311	Frost protection temperature	°C	2	0	-10	
40311 40312	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40311	·				_	

	Heating circuit 18					
40315	Desired room temperature during heating mode	°C	2	0	10	30
40316	Desired room temperature during setback mode	°C	2	0	10	30
40317	Controller gain room temperature Kp-Rm		10	1	0	20
40318	Reduction of flow temperature in setback mode	°C	2	0	0	70
+0310	External temperature, at which heating circuit pump switches				0	70
40319	off in heating mode	°C	2	0	-20	50
	External temperature, at which heating circuit pump switches					
40320	off in setback mode	°C	2	0	-20	50
40321	Maximum heating circuit flow temperature	°C	2	0	20	110
40324	Mixer runtime	S	1	0	30	600
40325	Frost protection temperature	°C	2	0	-10	20
40326	Flow temperature SP at external temperature of -10°C	°C	2	0	10	110
40327	Flow temperature SP at external temperature of +10°C	°C	2	0	10	110
	DHW tank 01					
	Load if temperature difference between storage tank and DHW					
40339	tank is	°C	2	0	3	50
40340	Set DHW temperature	°C	2	0	10	100
	Which storage tank or heat distributor supplies the heat (0 =					
40341	boiler)		1	0	0	4
40342	Residual heat use		1	0	0	1
40343	Reload if DHW tank temperature is below	°C	2	0	1	90
40344	Only load DHW tank once a day		1	0	0	1
40345	Legionella heating activated		1	0	0	1
40346	Which day for legionella heating		1	0	1	8
10310						
40347	Load if temperature difference between boiler and DHW tank is	°C	2	0	3	50
40348	Setpoint for temperature difference between boiler - DHW tank	°C	2	0	3	50
40351	Minimum DHW tank speed	%	1	0	0	100
	DHW tank 02					
	Load if temperature difference between storage tank and DHW			_	_	
	tank is	°C	2	0	3	50
40353	Set DHW temperature	°C	2	0	10	100
40254	Which storage tank or heat distributor supplies the heat (0 =		4	_	0	4
40354	boiler) Residual heat use		1	0	0	4
		0.0	1	0	0	1
	Reload if DHW tank temperature is below	°C	2	0	1	90
40357	Only load DHW tank once a day		1	0	0	1
40358	Legionella heating activated		1	0	0	1
40359	Which day for legionella heating		1	0	1	8
40260	Load if temperature difference between boiler and DHW tank is	°C	2	_	3	50
40360	Load it temperature difference between boller and briw tank is	٠٠		0	3	50
40361	Setpoint for temperature difference between boiler - DHW tank	°C	2	0	3	50
40364	Minimum DHW tank speed	%	1	0	0	100
+0304	DHW tank 03	/0			J	100
	Load if temperature difference between storage tank and DHW					
	· · · · · · · · · · · · · · · · · · ·	0.0	2	0	3	50
40365	Itank is	٠(
40365 40366	tank is Set DHW temperature	°C				100
40365 40366	Set DHW temperature	°C	2	0	10	100
						100

40370 Only load DHW tank once a day	40260	Doload if DHW tank tomporature is helow	0.0	_		4	00
40371 Legionella heating activated 1 0 0 1 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 8 8 1 1 0 1 1 8 8 1 1 0 1 1 8 8 1 1 0 1 1 8 1 1 0 1 1 8 1 1 0 1 1 8 1 1 0 1 1 1 0 1 1 1	40369	Reload if DHW tank temperature is below	°C	2	0	1	90
40372 Which day for legionella heating		,		_	_		_
A0373 Load if temperature difference between boiler and DHW tank is				1	0	0	
A0374 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50	40372	Which day for legionella heating		1	0	1	8
Minimum DHW tank speed 9%	40373	Load if temperature difference between boiler and DHW tank is	°C	2	0	3	50
New York Coad if temperature difference between storage tank and DHW tank is 0°C 2 0 3 50	40374	Setpoint for temperature difference between boiler - DHW tank	°C	2	0	3	50
Load if temperature difference between storage tank and DHW tank tank is °C 2 0 3 50	40377	Minimum DHW tank speed	%	1	0	0	100
40378 tank is		DHW tank 04					
40379 Set DHW temperature		Load if temperature difference between storage tank and DHW					
Which storage tank or heat distributor supplies the heat (0 = 1	40378		°C	2	0	3	50
40380 boiler	40379		°C	2	0	10	100
40381 Residual heat use		•					
A0382 Reload if DHW tank temperature is below	40380	,		1	0	0	4
40383 Only load DHW tank once a day	40381	Residual heat use		1	0	0	1
40384 Legionella heating activated 1 0 0 1 1 8	40382	Reload if DHW tank temperature is below	°C	2	0	1	90
40385 Which day for legionella heating	40383	Only load DHW tank once a day		1	0	0	1
A0386 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50	40384	Legionella heating activated		1	0	0	1
A0386 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50	40385	Which day for legionella heating		1	0	1	8
A0387 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50							
Minimum DHW tank speed % 1 0 0 100	40386	Load if temperature difference between boiler and DHW tank is	°C	2	0	3	50
DHW tank 05	40387	Setpoint for temperature difference between boiler - DHW tank	°C	2	0	3	50
Load if temperature difference between storage tank and DHW tank is °C 2 0 3 50	40390	Minimum DHW tank speed	%	1	0	0	100
40391 tank is °C 2 0 3 50 40392 Set DHW temperature °C 2 0 10 100 Which storage tank or heat distributor supplies the heat (0 = 1 0 0 4 40393 Boiler) 1 0 0 4 40394 Residual heat use 1 0 0 1 40395 Reload if DHW tank temperature is below °C 2 0 1 90 40396 Only load DHW tank once a day 1 0 0 1 0 0 1 40397 Legionella heating activated 1 0 0 1 8 40398 Which day for legionella heating 1 0 1 8 40409 Setpoint for temperature difference between boiler and DHW tank is °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 40404 tank is		DHW tank 05					
40392 Set DHW temperature °C 2 0 10 100		Load if temperature difference between storage tank and DHW					
Which storage tank or heat distributor supplies the heat (0 = boiler)	40391	tank is	°C	2	0	3	50
40393 boiler) 1 0 0 4 40394 Residual heat use 1 0 0 1 40395 Reload if DHW tank temperature is below °C 2 0 1 90 40396 Only load DHW tank once a day 1 0 0 1 40397 Legionella heating activated 1 0 0 1 40398 Which day for legionella heating 1 0 1 8 40399 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50 40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW 40404 tank is °C 2 0 3 50 40405 Set DHW temperature °C 2 0 1 0 0 4 40406 boiler) </td <td>40392</td> <td></td> <td>°C</td> <td>2</td> <td>0</td> <td>10</td> <td>100</td>	40392		°C	2	0	10	100
40395 Reload if DHW tank temperature is below °C 2 0 1 90 40396 Only load DHW tank once a day 1 0 0 1 40397 Legionella heating activated 1 0 0 1 40398 Which day for legionella heating 1 0 1 8 40399 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50 40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW tank is °C 2 0 3 50 40404 Set DHW temperature °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 40406 boiler) 1 0 0 4 40407 Residual heat use 1 0 0	40393	•		1	0	0	4
40396 Only load DHW tank once a day 1 0 0 1 40397 Legionella heating activated 1 0 0 1 40398 Which day for legionella heating 1 0 1 8 40399 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50 40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW tank is °C 2 0 3 50 40404 Set DHW temperature °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 40406 boiler) 1 0 0 4 40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1	40394	Residual heat use		1	0	0	1
40397 Legionella heating activated 1 0 0 1 40398 Which day for legionella heating 1 0 1 8 40399 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50 40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW tank is °C 2 0 3 50 40404 tank is °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 Which storage tank or heat distributor supplies the heat (0 = 1 0 0 4 40406 boiler) 1 0 0 4 40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 </td <td>40395</td> <td>Reload if DHW tank temperature is below</td> <td>°C</td> <td>2</td> <td>0</td> <td>1</td> <td>90</td>	40395	Reload if DHW tank temperature is below	°C	2	0	1	90
40398 Which day for legionella heating 1 0 1 8 40399 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50 40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW tank is °C 2 0 3 50 40404 Set DHW temperature °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 40406 boiler) 1 0 0 4 40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 0 0 1 40410 Legionella heating activated	40396	Only load DHW tank once a day		1	0	0	1
40399 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50 40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW tank is °C 2 0 3 50 40404 tank is °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 Which storage tank or heat distributor supplies the heat (0 = 0 4 40406 4 40407 Residual heat use 1 0 0 4 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1	40397	Legionella heating activated		1	0	0	1
40399 Load if temperature difference between boiler and DHW tank is °C 2 0 3 50 40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 C 2 0 3 50 40404 tank is °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 Which storage tank or heat distributor supplies the heat (0 = 1 0 0 4 40406 boiler) 1 0 0 4 40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1	40398	Which day for legionella heating		1	0	1	8
40400 Setpoint for temperature difference between boiler - DHW tank °C 2 0 3 50 40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW 40404 tank is °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 Which storage tank or heat distributor supplies the heat (0 = 0 4 40406 4 40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1							
40403 Minimum DHW tank speed % 1 0 0 100 DHW tank 06 Load if temperature difference between storage tank and DHW tank is °C 2 0 3 50 40404 Set DHW temperature °C 2 0 10 100 Which storage tank or heat distributor supplies the heat (0 = boiler) 1 0 0 4 40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1	40399	Load if temperature difference between boiler and DHW tank is	°C	2	0	3	50
DHW tank 06 Load if temperature difference between storage tank and DHW 40404 tank is C 2 0 3 50 40405 Set DHW temperature Which storage tank or heat distributor supplies the heat (0 = 40406 boiler) 40407 Residual heat use 40408 Reload if DHW tank temperature is below C 2 0 10 100 40409 Only load DHW tank once a day 40410 Legionella heating activated Auxiliary C 2 0 1 90 Auxiliary C 2 0	40400	Setpoint for temperature difference between boiler - DHW tank	°C	2	0	3	50
DHW tank 06 Load if temperature difference between storage tank and DHW 40404 tank is C 2 0 3 50 40405 Set DHW temperature Which storage tank or heat distributor supplies the heat (0 = 40406 boiler) 40407 Residual heat use 40408 Reload if DHW tank temperature is below C 2 0 10 100 40409 Only load DHW tank once a day 40410 Legionella heating activated Auxiliary C 2 0 1 90 Auxiliary C 2 0	40403	Minimum DHW tank speed	%	1	0	0	100
Load if temperature difference between storage tank and DHW 40404 tank is °C 2 0 3 50 40405 Set DHW temperature Which storage tank or heat distributor supplies the heat (0 = 40406 boiler) 40407 Residual heat use 40408 Reload if DHW tank temperature is below 40409 Only load DHW tank once a day 40410 Legionella heating activated 1 0 0 1 1 0 0 1		·			_		
40404 tank is °C 2 0 3 50 40405 Set DHW temperature °C 2 0 10 100 Which storage tank or heat distributor supplies the heat (0 = 1 0 0 4 40406 boiler) 1 0 0 4 40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1		1					
Which storage tank or heat distributor supplies the heat (0 = 40406 boiler) 1 0 0 4 4 40407 Residual heat use 1 0 0 1 4 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 4 40410 Legionella heating activated 1 0 0 1	40404	tank is	°C	2	0	3	50
Which storage tank or heat distributor supplies the heat (0 = 40406 boiler) 1 0 0 4 4 40407 Residual heat use 1 0 0 1 4 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 4 40410 Legionella heating activated 1 0 0 1		Set DHW temperature	°C		0		
40407 Residual heat use 1 0 0 1 40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1		Which storage tank or heat distributor supplies the heat (0 =					
40408 Reload if DHW tank temperature is below °C 2 0 1 90 40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1	40406	boiler)		1	0	0	4
40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1	40407	Residual heat use		1	0	0	1
40409 Only load DHW tank once a day 1 0 0 1 40410 Legionella heating activated 1 0 0 1	40408	Reload if DHW tank temperature is below	°C	2	0	1	90
40410 Legionella heating activated 1 0 0 1		•			0	0	1
		·			_		1
	40411	Which day for legionella heating		1	0	1	8

	Т					
40412	Load if temperature difference between boiler and DHW tank is	°C	2	0	3	50
40413	Setpoint for temperature difference between boiler - DHW tank	°C	2	0	3	50
40416	Minimum DHW tank speed	%	1	0	0	100
	DHW tank 07					
	Load if temperature difference between storage tank and DHW					
40417	tank is	°C	2	0	3	50
40418	Set DHW temperature	°C	2	0	10	100
	Which storage tank or heat distributor supplies the heat (0 =					
40419	boiler)		1	0	0	4
40420	Residual heat use		1	0	0	1
40421	Reload if DHW tank temperature is below	°C	2	0	1	90
40422	Only load DHW tank once a day		1	0	0	1
40423	Legionella heating activated		1	0	0	1
40424	Which day for legionella heating		1	0	1	8
40425	Load if temperature difference between boiler and DHW tank is	°C	2	0	3	50
40426	Setpoint for temperature difference between boiler - DHW tank	°C	2	0	3	50
40428	Load if temperature difference between boiler and DHW tank is	S	1	0	10	3600
40429	Minimum DHW tank speed	%	1	0	0	100
	DHW tank 08					
	Load if temperature difference between storage tank and DHW					
40430	tank is	°C	2	0	3	50
40431	Set DHW temperature	°C	2	0	10	100
40433	Residual heat use		1	0	0	1
40434	Reload if DHW tank temperature is below	°C	2	0	1	90
40435	Only load DHW tank once a day		1	0	0	1
40436	Legionella heating activated		1	0	0	1
40437	Which day for legionella heating		1	0	1	8
40442	Minimum DHW tank speed	%	1	0	0	100
40443	Which second Boiler is installed?		1	0	0	4
	Storage tank 01					
40444	Heating circuit release from following storage tank temperature	°C	2	0	20	100
40446	Temperature difference between boiler and border layer	°C	2	0	2	80
40447	Minimum storage tank pump speed	%	1	0	0	100
	Boiler start if difference between boiler setpoint and top store is					
40450	larger	°C	2	0	5	70
40.454	storage tank fully loaded if temperature difference between					
40451	boiler and bottom storage tank	°C	2	0	3	50
	Storage tank 02					
40452	Heating circuit release from following storage tank temperature	°C	2	0	20	100
40454	Temperature difference between boiler and border layer	°C	2	0	2	80
40455	Minimum storage tank pump speed	%	1	0	0	100
	Boiler start if difference between boiler setpoint and top store is					
40458	larger	°C	2	0	5	70
40459	storage tank fully loaded if temperature difference between boiler and bottom storage tank	°C	2	0	3	50
12.00						
	Storage tank 03					
				l .		<u> </u>

40460 Heating circuit release from following storage tank temperature °C 2 0 20 100			I	ī		1	
Minimum storage tank pump speed Soler start if difference between boiler setpoint and top store is storage tank fully loaded if temperature difference between C Z O S 70	40460	Heating circuit release from following storage tank temperature	°C	2	0	20	100
Boiler start if difference between boiler setpoint and top store is storage tank fully loaded if temperature difference between boiler and bottom storage tank boller and bottom storage tank temperature control in the storage tank boller and border layer control in the storage tank pump speed control in the storage tank pump speed soller start if difference between boiler and border layer control in the storage tank fully loaded if temperature difference between start if difference between boiler setpoint and top store is storage tank fully loaded if temperature difference between soller and bottom storage tank control in the storage tank fully loaded if temperature difference between soller and bottom storage tank control in the storage tank fully loaded if temperature difference between soller and bottom storage tank control in the storage tank fully loaded if temperature setpoint control in the storage tank fully loaded if temperature setpoint soller and bottom storage tank fully loaded if temperature setpoint control in the storage tank fully loaded if temperature setpoint control in the storage tank fully loaded if temperature setpoint control in the storage full full control in the storage full control in the stora	40462	Temperature difference between boiler and border layer	°C	2	0	2	80
Storage tank fully loaded if temperature difference between C 2 0 3 50	40463	Minimum storage tank pump speed	%	1	0	0	100
Storage tank fully loaded if temperature difference between C 2 0 3 50	40466	•	°C	2	0	5	70
Storage tank 04			°C	2	0	3	50
Temperature difference between boiler and border layer	10.107	3	Ŭ	_			
Minimum storage tank pump speed % 1 0 0 100	40468	Heating circuit release from following storage tank temperature	°C	2	0	20	100
Boiler start if difference between boiler setpoint and top store is larger storage tank fully loaded if temperature difference between boiler and bottom storage tank fully loaded if temperature difference between boiler and bottom storage tank fully loaded if temperature difference between boiler and bottom storage tank fully loaded if temperature difference between boiler and bottom storage tank fully loaded if temperature difference between shands for a simple storage tank fully loaded if temperature difference between stands for a simple storage tank fully loaded if temperature storage tank fully loaded for a simple storage tank loaded for a simple storage ta	40470	Temperature difference between boiler and border layer	°C	2	0	2	80
40474 larger storage tank fully loaded if temperature difference between storage tank fully loaded if temperature difference between S	40471	Minimum storage tank pump speed	%	1	0	0	100
Storage tank fully loaded if temperature difference between 0	40474	· · · · · · · · · · · · · · · · · · ·	°C	2	0	5	70
40476 Cycle of ash screw							
40477 Ash screw runtime	40475	boiler and bottom storage tank	°C	2	0	3	50
1	40476	Cycle of ash screw		1	0	1	5000
40479 Second start of cleaning 1 0 0 0 2400	40477	Ash screw runtime	S	1	0	0	120
40480 Modem installed 1 0 0 0 1 1 40481 Boiler temperature setpoint °C 2 0 0 25 90 40482 Minimum boiler temperature to release all pumps °C 2 0 0 20 70 70 40483 Maximum time until switching of probe min 60 0 0 3 120 40484 Standby boiler start delay min 60 0 0 0 500 40485 Standby boiler start, if storage tank top temperature is below °C 2 0 0 0 100 40486 Standby boiler minimum runtime min 60 0 0 0 500 40487 Minimum temperature of standby boiler and storage °C 2 0 0 20 95 Temperature difference between standby boiler and storage 40488 tank °C 2 0 0 0 50 50 40499 Solar system 1 0 1 3 3 40490 Temp difference to stop collector pump °C 2 0 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 0 50 40492 Charging °C 2 0 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 0 95 40494 Minimum collector pump speed % 1 0 0 0 100 40511 Clean after how many shutdowns 1 0 0 50 40512 Minimum flue gas temperature °C 1 0 65 300 40513 residual oxygen content setpoint % 10 1 1 21 21 40514 Temperature in the hi-limit stat housing at which all pumps run °C 2 0 50 104 40515 Maximum current for delivery screw A 100 2 0,01 6 40517 Start of 2nd pellet filling 1 0 0 1 1 120 Should this heating circuit heat when there is DHW boiler 1 0 0 1 1 10 0 0	40478	First start of cleaning		1	0	0	2400
40481 Boiler temperature setpoint	40479	Second start of cleaning		1	0	0	2400
Minimum boiler temperature to release all pumps	40480	Modem installed		1	0	0	1
40482 Minimum boiler temperature to release all pumps °C 2 0 20 70	40481	Boiler temperature setpoint	°C	2	0	25	90
40483 Maximum time until switching of probe min 60 0 3 120 40484 Standby boiler start delay min 60 0 0 500 40485 Standby boiler start, if storage tank top temperature is below °C 2 0 0 100 40486 Standby boiler minimum runtime min 60 0 0 500 40487 Minimum temperature of standby boiler °C 2 0 20 95 Temperature difference between standby boiler and storage 40488 8ank °C 2 0 0 50 40488 Solar system 1 0 1 3 40498 50lar system 1 0 1 3 40498 50lar system 1 0 1 3 40499 Temp differenctal to start collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 40492 charging °C		Minimum boiler temperature to release all pumps	°C	2	0	20	70
40484 Standby boiler start delay	40483	Maximum time until switching of probe	min	60	0	3	120
40486 Standby boiler minimum runtime min 60 0 500 40487 Minimum temperature of standby boiler °C 2 0 20 95 Temperature difference between standby boiler and storage 40488 tank °C 2 0 0 50 40489 Solar system 1 0 1 3 40490 Temp differential to start collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 40492 Maximum storage tank bottom temperature during solar °C 2 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 95 40511 Clean after how many sh		Standby boiler start delay			0		
40487 Minimum temperature of standby boiler °C 2 0 20 95 Temperature difference between standby boiler and storage 40488 tank °C 2 0 0 50 40489 Solar system 1 0 1 3 40490 Temp differential to start collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 40492 Description of the stop collector pump °C 2 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 95 40494 Minimum collector pump speed % 1 0 0 100 40511 Clean after how many sh	40485		°C	2	0	0	100
Temperature difference between standby boiler and storage 1	40486	,	min	60	0	0	500
40488 tank °C 2 0 0 50 40489 Solar system 1 0 1 3 40490 Temp differential to start collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 Maximum storage tank bottom temperature during solar charging °C 2 0 0 95 40492 charging °C 2 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 95 40494 Minimum collector pump speed % 1 0 0 100 100 40511 Clean after how many shutdowns 1 0 0 50 40512 Minimum flue gas temperature °C 1 0 65 300 40513 residual oxygen content setpoint % 10 1 1 21 40514 Temperature in the hi-limit stat housing at which all pumps run °C 2 0 50 104 40515 Maximum current for delivery screw A 100 2 <t< td=""><td>40487</td><td></td><td>°C</td><td>2</td><td>0</td><td>20</td><td>95</td></t<>	40487		°C	2	0	20	95
40490 Temp differential to start collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 Maximum storage tank bottom temperature during solar charging °C 2 0 0 95 40492 Charging °C 2 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 95 40494 Minimum collector pump speed % 1 0 0 100 40511 Clean after how many shutdowns 1 0 0 50 40512 Minimum flue gas temperature °C 1 0 65 300 40513 residual oxygen content setpoint % 10 1 1 21 40514 Temperature in the hi-limit stat housing at which all pumps run °C 2 0 50 104 40515 Maximum current for delivery screw A 100 2	40488		°C	2	0	0	50
40490 Temp differential to start collector pump °C 2 0 0 50 40491 Temp difference to stop collector pump °C 2 0 0 50 Maximum storage tank bottom temperature during solar charging °C 2 0 0 95 40492 Charging °C 2 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 95 40494 Minimum collector pump speed % 1 0 0 100 40511 Clean after how many shutdowns 1 0 0 50 40512 Minimum flue gas temperature °C 1 0 65 300 40513 residual oxygen content setpoint % 10 1 1 21 40514 Temperature in the hi-limit stat housing at which all pumps run °C 2 0 50 104 40515 Maximum current for delivery screw A 100 2	40489	Solar system		1	0	1	3
Maximum storage tank bottom temperature during solar 40492 charging 40493 Boiler target temperature during solar charging 40494 Minimum collector pump speed 40511 Clean after how many shutdowns 40512 Minimum flue gas temperature 40513 residual oxygen content setpoint 40514 Temperature in the hi-limit stat housing at which all pumps run 40515 Maximum current for delivery screw 40516 Maximum current for delivery screw 40517 Start of 2nd pellet filling 40519 Max. runtime of suction fan Should this heating circuit heat when there is DHW boiler 40521 Priority? HC 01 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler			°C	2	0	0	50
40492 charging °C 2 0 0 95 40493 Boiler target temperature during solar charging °C 2 0 0 95 40494 Minimum collector pump speed % 1 0 0 100 40511 Clean after how many shutdowns 1 0 0 50 40512 Minimum flue gas temperature °C 1 0 65 300 40513 residual oxygen content setpoint % 10 1 1 21 40514 Temperature in the hi-limit stat housing at which all pumps run °C 2 0 50 104 40515 Maximum current for delivery screw A 100 2 0,01 6 40517 Start of 2nd pellet filling 1 0 0 2400 40519 Max. runtime of suction fan min 60 0 1 120 40520 priority ? HC 01 1 0 0 1 40521 priority ? HC 02 1 0 0 1 Should this heating circuit heat when there is DHW boiler 1 0 0 1 40521 priority ? HC 02 <td>40491</td> <td>Temp difference to stop collector pump</td> <td>°C</td> <td>2</td> <td>0</td> <td>0</td> <td>50</td>	40491	Temp difference to stop collector pump	°C	2	0	0	50
40493Boiler target temperature during solar charging°C2009540494Minimum collector pump speed%10010040511Clean after how many shutdowns1005040512Minimum flue gas temperature°C106530040513residual oxygen content setpoint%10112140514Temperature in the hi-limit stat housing at which all pumps run°C205010440515Maximum current for delivery screwA10020,01640517Start of 2nd pellet filling100240040519Max. runtime of suction fanmin6001120Should this heating circuit heat when there is DHW boiler100140520priority? HC 011001Should this heating circuit heat when there is DHW boiler100140521priority? HC 021001Should this heating circuit heat when there is DHW boiler1001	40492	, , , , , , , , , , , , , , , , , , , ,	۰C	2	n	n	95
40494Minimum collector pump speed%10010040511Clean after how many shutdowns1005040512Minimum flue gas temperature°C106530040513residual oxygen content setpoint%10112140514Temperature in the hi-limit stat housing at which all pumps run°C205010440515Maximum current for delivery screwA10020,01640517Start of 2nd pellet filling100240040519Max. runtime of suction fanmin6001120Should this heating circuit heat when there is DHW boiler1001Should this heating circuit heat when there is DHW boiler100140521priority ? HC 021001Should this heating circuit heat when there is DHW boiler1001Should this heating circuit heat when there is DHW boiler1001			_				
40511 Clean after how many shutdowns 40512 Minimum flue gas temperature 40513 residual oxygen content setpoint 40514 Temperature in the hi-limit stat housing at which all pumps run 40515 Maximum current for delivery screw 40517 Start of 2nd pellet filling 40519 Max. runtime of suction fan 5hould this heating circuit heat when there is DHW boiler 40520 priority? HC 01 5hould this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler			_		_	-	
40512Minimum flue gas temperature°C106530040513residual oxygen content setpoint%10112140514Temperature in the hi-limit stat housing at which all pumps run°C205010440515Maximum current for delivery screwA10020,01640517Start of 2nd pellet filling100240040519Max. runtime of suction fanmin6001120Should this heating circuit heat when there is DHW boiler100140520priority? HC 011001Should this heating circuit heat when there is DHW boiler100140521priority? HC 021001Should this heating circuit heat when there is DHW boiler1001			70				
40513 residual oxygen content setpoint % 10 1 1 21 40514 Temperature in the hi-limit stat housing at which all pumps run °C 2 0 50 104 40515 Maximum current for delivery screw A 100 2 0,01 6 40517 Start of 2nd pellet filling 1 0 0 2400 40519 Max. runtime of suction fan min 60 0 1 120 Should this heating circuit heat when there is DHW boiler priority ? HC 01 1 0 0 1 Should this heating circuit heat when there is DHW boiler priority ? HC 02 1 0 0 1 Should this heating circuit heat when there is DHW boiler priority ? HC 02 1 0 0 1		•	۰C			_	
40515 Maximum current for delivery screw 40517 Start of 2nd pellet filling 40519 Max. runtime of suction fan Should this heating circuit heat when there is DHW boiler 40520 priority? HC 01 Should this heating circuit heat when there is DHW boiler 40521 priority? HC 02 Should this heating circuit heat when there is DHW boiler 40521 Should this heating circuit heat when there is DHW boiler			_				
40517 Start of 2nd pellet filling 40519 Max. runtime of suction fan Should this heating circuit heat when there is DHW boiler 40520 priority? HC 01 Should this heating circuit heat when there is DHW boiler 40521 priority? HC 02 Should this heating circuit heat when there is DHW boiler Should this heating circuit heat when there is DHW boiler	40514	Temperature in the hi-limit stat housing at which all pumps run	°C	2	0	50	104
40519 Max. runtime of suction fan min 60 0 1 120 Should this heating circuit heat when there is DHW boiler 40520 priority? HC 01 1 0 0 1 Should this heating circuit heat when there is DHW boiler 40521 priority? HC 02 1 0 0 1 Should this heating circuit heat when there is DHW boiler	40515		Α	100	2	0,01	6
40519 Max. runtime of suction fan min 60 0 1 120 Should this heating circuit heat when there is DHW boiler 40520 priority? HC 01 1 0 0 1 Should this heating circuit heat when there is DHW boiler 40521 priority? HC 02 1 0 0 1 Should this heating circuit heat when there is DHW boiler	40517	Start of 2nd pellet filling		1	0	0	2400
40520 priority ? HC 01	40519		min	60	0	1	120
40521 priority ? HC 02	40520	priority ? HC 01		1	0	0	1
	40521	priority ? HC 02		1	0	0	1
	40522			1	0	0	1

	Should this heating circuit heat when there is DHW boiler					
40523	priority ? HC 04		1	0	0	1
+0323	Should this heating circuit heat when there is DHW boiler					
40524	priority ? HC 05		1	0	0	1
10321	Should this heating circuit heat when there is DHW boiler					_
40525	priority ? HC 06		1	0	0	1
10323	Should this heating circuit heat when there is DHW boiler					_
40526	priority ? HC 07		1	0	0	1
10320	Should this heating circuit heat when there is DHW boiler					
40527	priority ? HC 08		1	0	0	1
10327	Should this heating circuit heat when there is DHW boiler					_
40528	priority ? HC 09		1	0	0	1
10020	Should this heating circuit heat when there is DHW boiler			<u> </u>		
40529	priority ? HC 10		1	0	0	1
10323	Should this heating circuit heat when there is DHW boiler	 		<u> </u>		_
40530	priority ? HC 11		1	0	0	1
10000	Should this heating circuit heat when there is DHW boiler	 		<u> </u>		
40531	priority ? HC 12		1	0	0	1
	Should this heating circuit heat when there is DHW boiler					_
40532	priority ? HC 13		1	0	0	1
	Should this heating circuit heat when there is DHW boiler					_
40533	priority ? HC 14		1	0	0	1
	Should this heating circuit heat when there is DHW boiler					
40534	priority ? HC 15		1	0	0	1
	Should this heating circuit heat when there is DHW boiler					
40535	priority ? HC 16		1	0	0	1
	Should this heating circuit heat when there is DHW boiler					
40536	priority ? HC 17		1	0	0	1
	Should this heating circuit heat when there is DHW boiler					
40537	priority ? HC 18		1	0	0	1
40559	Custing for man on					
1 40009	Suction fan run-on	S	1	0	1	60
		_				
40560	Delivery screw runtime	S	1	0	1	900
40560 40561	Delivery screw runtime Delivery screw pause time	_	1	0	1	900
40560 40561 40615	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from	S	1 1 1	0 0	1 1 0	900 240 2400
40560 40561 40615	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until	S	1	0	1	900
40560 40561 40615 40616	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating	S	1 1 1 1	0 0 0 0	1 1 0 0	900 240 2400 2400
40560 40561 40615	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit	S	1 1 1	0 0	1 1 0	900 240 2400
40560 40561 40615 40616 40621	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating	S	1 1 1 1	0 0 0 0	1 1 0 0	900 240 2400 2400 18
40560 40561 40615 40616	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit	S	1 1 1 1	0 0 0 0	1 1 0 0	900 240 2400 2400
40560 40561 40615 40616 40621 40622	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating	S	1 1 1 1 1	0 0 0 0 0	1 1 0 0	900 240 2400 2400 18
40560 40561 40615 40616 40621	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit	S	1 1 1 1	0 0 0 0	1 1 0 0	900 240 2400 2400 18
40560 40561 40615 40616 40621 40622 40623	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit	S	1 1 1 1 1 1	0 0 0 0 0	1 1 0 0 0	900 240 2400 2400 18 18
40560 40561 40615 40616 40621 40622	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit	S	1 1 1 1 1	0 0 0 0 0	1 1 0 0	900 240 2400 2400 18
40560 40561 40615 40616 40621 40622 40623	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit	S	1 1 1 1 1 1 1	0 0 0 0 0	1 1 0 0 0 0	900 240 2400 2400 18 18 18
40560 40561 40615 40616 40621 40622 40623	Delivery screw runtime Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit	S	1 1 1 1 1 1	0 0 0 0 0	1 1 0 0 0	900 240 2400 2400 18 18
40560 40561 40615 40616 40621 40622 40623 40624	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit	S	1 1 1 1 1 1 1	0 0 0 0 0 0	1 1 0 0 0 0 0	900 240 2400 2400 18 18 18 18
40560 40561 40615 40616 40621 40622 40623	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit	S	1 1 1 1 1 1 1	0 0 0 0 0	1 1 0 0 0 0	900 240 2400 2400 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624 40625	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit	S	1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit	S	1 1 1 1 1 1 1	0 0 0 0 0 0	1 1 0 0 0 0 0	900 240 2400 2400 18 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624 40625 40626	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit	S	1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624 40625	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit	S	1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624 40625 40626 40627	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit Display with address 1 is allocated to the following DHW tank	S	1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624 40625 40626	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit	S	1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624 40625 40626 40627 40629	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit Display with address 7 is allocated to the following DHW tank Display with address 2 is allocated to the following DHW tank	S	1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18 18 18 18 8
40560 40561 40615 40616 40621 40622 40623 40624 40625 40626 40627	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit Display with address 1 is allocated to the following DHW tank	S	1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18 18 18 18
40560 40561 40615 40616 40621 40622 40623 40624 40625 40626 40627 40629	Delivery screw pause time Vacuum filling system permitted from Vacuum filling system permitted until Display with address 1 is allocated to the following heating circuit Display with address 2 is allocated to the following heating circuit Display with address 3 is allocated to the following heating circuit Display with address 4 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 5 is allocated to the following heating circuit Display with address 6 is allocated to the following heating circuit Display with address 7 is allocated to the following heating circuit Display with address 7 is allocated to the following DHW tank Display with address 2 is allocated to the following DHW tank	S	1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0	900 240 2400 2400 18 18 18 18 18 18 18 8

				I		
40633	Display with address 5 is allocated to the following DHW tank		1	0	0	8
40634	Display with address 6 is allocated to the following DHW tank		1	0	0	8
40635	Display with address 7 is allocated to the following DHW tank		1	0	0	8
40639	Is a PT1000 sensor used as a solar sensor?	†	1	0	0	1
40648	Network return setpoint	°C	2	0	20	120
40649	Minimum speed for network pump	%	1	0	0	100
40660	Adopt specified material values	1 70	1	0	0	1
40663	Memory cycle of data logger	S	1	0	3	120
40003	From which storage tank or distributor is the heating circuit	- 5		0		120
40664	supplied (0 = boiler) HC 01		1	0	0	4
10001	From which storage tank or distributor is the heating circuit			_		'
40665	supplied (0 = boiler) HC 02		1	0	0	4
	From which storage tank or distributor is the heating circuit					
40666	supplied (0 = boiler) HC 03		1	0	0	4
	From which storage tank or distributor is the heating circuit					
40667	supplied (0 = boiler) HC 04		1	0	0	4
	From which storage tank or distributor is the heating circuit					
40668	supplied (0 = boiler) HC 05		1	0	0	4
40550	From which storage tank or distributor is the heating circuit					
40669	supplied (0 = boiler) HC 06 From which storage tank or distributor is the heating circuit		1	0	0	4
40670	supplied (0 = boiler) HC 07		1	0	0	4
40670	From which storage tank or distributor is the heating circuit	+	1	U	U	4
40671	supplied (0 = boiler) HC 08		1	0	0	4
40071	From which storage tank or distributor is the heating circuit		т	0	U	4
40672	supplied (0 = boiler) HC 09		1	0	0	4
10072	From which storage tank or distributor is the heating circuit					-
40673	supplied (0 = boiler) HC 10		1	0	0	4
	From which storage tank or distributor is the heating circuit					
40674			1	0	0	4
	From which storage tank or distributor is the heating circuit					
40675	supplied (0 = boiler) HC 12		1	0	0	4
	From which storage tank or distributor is the heating circuit			_	_	
40676	supplied (0 = boiler) HC 13		1	0	0	4
40677	From which storage tank or distributor is the heating circuit supplied (0 = boiler) HC 14		4	0	0	4
40677	From which storage tank or distributor is the heating circuit		1	U	U	4
40678	supplied (0 = boiler) HC 15		1	0	0	4
40070	From which storage tank or distributor is the heating circuit		т_	0	0	
40679	supplied (0 = boiler) HC 16		1	0	0	4
10075	From which storage tank or distributor is the heating circuit			Ť		
40680	supplied (0 = boiler) HC 17		1	0	0	4
	From which storage tank or distributor is the heating circuit					
40681	supplied (0 = boiler) HC 18		1	0	0	4
40690	Return temperature setpoint feeder 1	°C	2	0	20	120
40691	Return temperature setpoint feeder 2	°C	2	0	20	120
40692	Return temperature setpoint feeder 3	°C	2	0	20	120
40693	Return temperature setpoint feeder 4	°C	2	0	20	120
40694	Minimum speed for feeder pump 1	%	1	0	0	100
40695	Minimum speed for feeder pump 2	%	1	0	0	100
40695	Minimum speed for feeder pump 3	%	1	0	0	100
	Minimum speed for feeder pump 4	-				
40697	Priminanti speca for recaci partip 4	%	1	0	0	100

	Air quantity, which should be reached during preparation with					
40720	P4 Pellet 8/15	mV	100	2	0	5
40728	Oil valve shut delay	S	1	0	0	3600
40732	Minimum pump speed	%	1	0	0	100
40733	Startup difference	°C	2	0	-20	100
40734	'	°C	2	0	-20	100
40752	Invert isolating valve	+ -	1	0	0	1
10732	Switch off the pump at what return temperature in the			_	<u> </u>	_
40753	circulation line	°C	2	0	20	120
40754	Circulation pump run-on	s	1	0	1	3600
40755	Return sensor present		1	0	0	1
40758	Mode		1	0	0	2
40759	Invert standby boiler isolating valve		1	0	0	1
40760	Minimum temperature for heat source	°C	2	0	1	90
40761	Maximum temperature for heat sink	°C	2	0	10	130
40764	Heat exchanger - storage tank pump start delay	s	1	0	1	7200
40765	Heat exchanger - storage tank pump stor delay	_	1	0	1	7200
40765	Maximum collector pump speed	%	1	0	0	100
40700	storage tank top solar setpoint (fast loading until this	70	1	U	U	100
40767	temperature)	°C	2	0	20	120
40768	Collector - storage tank top differential	°C	2	0	2	60
40769	Collector - heat exchanger sec., outfeed difference	°C	2	0	2	60
40770	Collector return - storage tank bottom differential	°C	2	0	2	60
40770	Collector pump control Kp value	<u> </u>	256	2	.	
	Collector pump control Tn value	+ _	1	0	0,01	99,99
40772	Control heating circuit according to program (NO -> heating	S	1	U	1	3600
40775	circuit is switched off) HC 01		1	0	0	1
10773	Control heating circuit according to program (NO -> heating					_
40776	circuit is switched off) HC 02		1	0	0	1
	Control heating circuit according to program (NO -> heating					
40777	circuit is switched off) HC 03		1	0	0	1
	Control heating circuit according to program (NO -> heating					
40778	circuit is switched off) HC 04		1	0	0	1
40702	Air quantity, which should be reached during preparation with P4 Pellet 20/25	ma\/	100	2	_	5
40783	Adopt boiler standard values	mV	100		0	
40787	•		1	0	0	1
40788	Lambda probe correction value		14	1	-7	8
40789	Control standby boiler variably to the target value	20	1	0	0	1
40790	Standby boiler delivery temperature Control heating circuit according to program (NO -> heating	°C	2	0	60	110
40791	circuit is switched off) HC 05		1	0	0	1
40791	Control heating circuit according to program (NO -> heating		1	0	-	
40792	circuit is switched off) HC 06		1	0	0	1
.0752	Control heating circuit according to program (NO -> heating					_
40793	circuit is switched off) HC 07		1	0	0	1
	Control heating circuit according to program (NO -> heating					
40794	circuit is switched off) HC 08		1	0	0	1
	Control heating circuit according to program (NO -> heating			_	_	
40795	circuit is switched off) HC 09		1	0	0	1
40796	Control heating circuit according to program (NO -> heating circuit is switched off) HC 10		1	0	0	1
	Nominal flow of collector pump for heat meter [L/h]	1		_		
40797			1	0	0	10000
40798	Room air independent operation		1	0	0	1

	In pellet mode stop storage tank loading bec. of middle storage					
40799	tank sensor		1	0	0	1
	Collector monitoring -> Collector pump is switched on every 30			_		_
40800	min. for 10 sec.		1	0	0	1
40801	Output warnings through fault message relays		1	0	0	1
40802	Condensation heat exchanger present (P4 Pellet)		1	0	0	1
	Only switch on the network pump when required by the store					
40804	(variant 3 / 4)		1	0	0	1
40805	DHW tanks run-on (this setting applies for all DHW tanks)	min	60	0	0	100
40811	Start emergency skimming from STL sensor temp.	°C	2	0	90	110
40812	Enable heating circuit pump 0 according to top store		1	0	0	1
40815	Deviation of room sensor from display with address 1	°C	2	0	-20	20
40816	Deviation of room sensor from display with address 2	°C	2	0	-20	20
40817	Deviation of room sensor from display with address 3	°C	2	0	-20	20
40818	Deviation of room sensor from display with address 4	°C	2	0	-20	20
40819	Deviation of room sensor from display with address 5	°C	2	0	-20	20
40820	Deviation of room sensor from display with address 6	°C	2	0	-20	20
40821	Deviation of room sensor from display with address 7	°C	2	0	-20	20
40822	O2 control release in heating from	min	60	0	0	30
40823	If the boiler is active then all stores charge		1	0	0	1
40825	Heating hours until ash removal warning	h	1	0	10	9999
40830	Store - Store difference	°C	2	0	-10	20
40831	For solar to store and DHW tank, the DHW tank has priority		1	0	0	1
40832	Heating up program active		1	0	0	1
40833	Current day of the heating up program		1	0	1	30
40834	For which heating circuit should the program apply		1	0	1	18
40835	Which heating up program is used		1	0	1	7
40842	Buffer charge is 100 % at boiler setpoint parameter	°C	2	0	-10	60
40843	Store charge is 0 % at the following temperature	°C	2	0	5	80
	Start of store charging from charge	%	1	0	0	100
	Start point 2 at store charge	%	1	0	0	100
40846	Start point 3 at store charge	%	1	0	0	100
40847	Start priority of the master boiler	,,	1	0	1	4
40848	Start priority of slave boiler 1		1	0	1	4
40849	Start priority of slave boiler 2		1	0	1	4
40850	Start priority of slave boiler 3		1	0	1	4
40852	Quick start if store discharge is greater than (% / 10min)		1	0	1	40
10032	Reduce the overall output of the cascade before the store is fully					10
40853	loaded	%	1	0	0	70
40863	Outfeed setpoint for all days in program 7	°C	2	0	0	100
40864	COM 2 is used as a MODBUS interface		1	0	0	1
40865	MODBUS address		1	0	1	247
40866	MODBUS protocol (1 - RTU / 2 - ASCII)		1	0	1	2
	Broadband probe type (1 Bosch / 2 NTK) (3 LSM11					
40870	input)		1	0	1	3
40871	Broadband probe calibration		1	0	0	1
40872	Stoker monitoring active		1	0	0	1
40874	Minimum collector temperature	°C	2	0	0	80
40875	Solar charging to which store		1	0	1	4
40876	Solar charging to which DHW tank		1	0	1	8
40878	Control store requests according to system environment		1	0	0	1
	·					

	According to system environment, store request shutdown delay					
40879	of	min	60	0	0	120
40880	100 % boiler output from a store charge of	%	1	0	0	100
40881	0 % boiler output if store charge is over	%	1	0	0	100
40888	Condenser cleaning interval (Heating hours)	h	1	0	1	120
40889	Condenser cleaning duration	S	1	0	10	240
40890	Condenser cleaning possible from	-	1	0	0	2400
40891	Condenser cleaning possible till		1	0	0	2400
40892	Correction value for external sensor	°C	2	0	-10	10
	Heating circuit modul to which the external sensor is connected					
40893	(0 = Core modul)		1	0	0	8
40896	Pulse per litre of flow through meter		10	1	0,1	20
40897	Is an external flow through counter used		1	0	0	1
40908	Electrical room air flap present		1	0	0	1
40912	Refill cyclone after buffer charging?		1	0	0	1
40916	Use room sensor input for room thermostat		1	0	0	1
40917	Send a line break when ASCII data output on COM2		1	0	0	1
40918	Position 1 of change-over unit is used?		1	0	0	1
40919	Position 2 of change-over unit is used?		1	0	0	1
	Position 3 of change-over unit is used?		1	0	0	1
40921	Clean after how many hours heating	h	10	1	0	24
.0321	Vacuum + screw filling run-on, applies after reaching the MAX			_		
40922	fill level	S	1	0	0	300
40923	High temperature reqirement because of DHW tank loading		1	0	0	1
	For high temperature requirement DHW tank 01 don't look at					
40926			1	0	0	1
40927	On-time of spray valve. Overall cyclus 20 sec	%	1	0	10	100
40020	Touchscreen with address 1 is allocated to the following heating		_		0	1.0
40930	circuit Touchscreen with address 2 is allocated to the following heating		1	0	0	18
40931	circuit		1	0	0	18
10331	Tpuchscreen with address 3 is allocated to the following heating					
40932	circuit		1	0	0	18
	Touchscreen with address 4 is allocated to the following heating					
40933	circuit		1	0	0	18
40004	Touchscreen with address 5 is allocated to the following heating		_			
40934	circuit Touchscreen with address 6 is allocated to the following heating		1	0	0	18
40935	circuit		1	0	0	18
40333	Touchscreen with address 7 is allocated to the following heating				0	
40936	circuit		1	0	0	18
	Touchscreen with address 1 is allocated to the following DHW					
40938	tank		1	0	0	8
	Touchscreen with address 2 is allocated to the following DHW					
40939	tank		1	0	0	8
40040	Touchscreen with address 3 is allocated to the following DHW tank		4	_	0	0
40940	Touchscreen with address 4 is allocated to the following DHW		1	0	0	8
40941	tank		1	0	0	8
	Touchscreen with address 5 is allocated to the following DHW					
40942	tank		1	0	0	8
	Touchscreen with address 6 is allocated to the following DHW					
40943	tank		1	0	0	8
40044	Touchscreen with address 7 is allocated to the following DHW		4		_	
40944	tank		1	0	0	8

49957 PWM setting for storage tank 2 pump 1 0 0 6 49958 PWM setting for storage tank 3 pump 1 0 0 6 49959 PWM setting for storage tank 4 pump 1 0 0 6 49960 PWM setting for DHW tank 1 pump 1 0 0 6 49961 PWM setting for DHW tank 2 pump 1 0 0 6 49962 PWM setting for DHW tank 3 pump 1 0 0 6 49963 PWM setting for DHW tank 5 pump 1 0 0 6 49964 PWM setting for DHW tank 5 pump 1 0 0 6 49965 PWM setting for DHW tank 6 pump 1 0 0 6 49966 PWM setting for DHW tank 8 pump 1 0 0 6 49969 PWM setting for shurt pump 1 0 0 6 49969 PWM setting for shurt pump 1 0 0 6 49970 PWM setting for shurt pump 1 0 0 6 49970 PWM setting for olive Control pump 1 <td< th=""><th>40956</th><th>PWM setting for storage tank 1 pump</th><th></th><th>1</th><th>0</th><th>0</th><th>6</th></td<>	40956	PWM setting for storage tank 1 pump		1	0	0	6
40958 PWM setting for storage tank 3 pump							
40950 PWM setting for storage tank 4 pump					_		
40960 PWM setting for DHW tank 1 pump							
40961 PWM setting for DHW tank 2 pump		3 1 1					
40962 PWM setting for DHW tank 4 pump							
40963 PWM setting for DHW tank 4 pump							
40964 PWM setting for DHW tank 5 pump							
40965 PWM setting for DHW tank 6 pump							
40966 PWM setting for DHW tank 7 pump					_		
40967 PWM setting for DHW tank 8 pump							
40968 PWM setting for shunt pump 1 0 0 6 6							
40969 PWM setting for network pump					_		
40970 PWM setting for diff. control pump 1 0 0 6		l ' '					
40971 PWM setting for boiler 2 pump							
40972 PWM setting for solar collector pump 1 0 1 2 40976 Priority of suction position 2 1 0 1 2 40977 Priority of suction position 3 1 0 1 2 40978 Start of locking window for suction position with priority 1 1 0 0 2400 40979 End of locking window for suction position with priority 1 1 0 0 2400 41030 Maximum storage tank 1 pump speed % 1 0 0 100 41031 Maximum storage tank 2 pump speed % 1 0 0 100 41033 Maximum storage tank 3 pump speed % 1 0 0 100 41033 Maximum DHW tank 1 pump speed % 1 0 0 100 41035 Maximum DHW tank 2 pump speed % 1 0 0 100 41037 Maximum DHW tank 5 pump speed % 1 0 0 100							
40976 Priority of Suction position 2							
1		, ,			ŀ		
40978 Start of locking window for suction position with priority 1 1 0 0 2400 40979 End of locking window for suction position with priority 1 1 0 0 2400 41030 Maximum storage tank 1 pump speed % 1 0 0 100 41031 Maximum storage tank 2 pump speed % 1 0 0 100 41033 Maximum storage tank 4 pump speed % 1 0 0 100 41034 Maximum Storage tank 4 pump speed % 1 0 0 100 41034 Maximum DHW tank 1 pump speed % 1 0 0 100 41035 Maximum DHW tank 2 pump speed % 1 0 0 100 41037 Maximum DHW tank 3 pump speed % 1 0 0 100 41038 Maximum DHW tank 6 pump speed % 1 0 0 100 41038 Maximum DHW tank 7 pump speed % 1 0		,			_		
40979 End of locking window for suction position with priority 1		,					
41030 Maximum storage tank 1 pump speed % 1 0 0 100 41031 Maximum storage tank 2 pump speed % 1 0 0 100 41032 Maximum storage tank 3 pump speed % 1 0 0 100 41033 Maximum storage tank 4 pump speed % 1 0 0 100 41034 Maximum storage tank 4 pump speed % 1 0 0 100 41035 Maximum DHW tank 1 pump speed % 1 0 0 100 41036 Maximum DHW tank 2 pump speed % 1 0 0 100 41037 Maximum DHW tank 3 pump speed % 1 0 0 100 41038 Maximum DHW tank 4 pump speed % 1 0 0 100 41039 Maximum DHW tank 5 pump speed % 1 0 0 100 41039 Maximum DHW tank 6 pump speed % 1 0 0 100 41040 Maximum DHW tank 7 pump speed % 1 0 0 100 41041 Maximum DHW tank 8 pump speed % 1 0 0 100 41042 Maximum DHW tank 8 pump speed % 1 0 0 100 41043 Maximum biller 2 pump % 1 0 0 100 41044 Maximum diff. Control pump speed % 1 0 0 100 41045 Maximum biller 2 pump % 1 0 0 100 41050 PWM setting for feeder pump 1 1 0 0 6 41051 PWM setting for feeder pump 3 1 0 0 6 41052 PWM setting for feeder pump 4 1 0 0 6 41053 Maximum speed for feeder pump 2 1 0 0 6 41054 Maximum speed for feeder pump 4 1 0 0 6 41055 Maximum speed for feeder pump 2 1 0 0 6 41056 Maximum speed for feeder pump 3 1 0 0 100 41058 Maximum speed for feeder pump 4 1 0 0 0 41059 Maximum speed for feeder pump 3 1 0 0 100 41059 Maximum speed for feeder pump 4 1 0 0 100 41060 Maximum speed for feeder pump 3 1 0 0 100 41059 Maximum speed for feeder pump 4 1 0 0 100 41060 Maximum speed for feeder pump 3 1 0 0 100 41061 Minimum boiler 2 pump 1 0 0 100 41062 Minimum circulation pump speed 1 0 0 100 41063 O2 controller limitation if this is not re							
41031 Maximum storage tank 2 pump speed % 1 0 0 100 41032 Maximum storage tank 3 pump speed % 1 0 0 100 41033 Maximum storage tank 4 pump speed % 1 0 0 100 41034 Maximum DHW tank 1 pump speed % 1 0 0 100 41035 Maximum DHW tank 2 pump speed % 1 0 0 100 41036 Maximum DHW tank 3 pump speed % 1 0 0 100 41037 Maximum DHW tank 4 pump speed % 1 0 0 100 41038 Maximum DHW tank 5 pump speed % 1 0 0 100 41039 Maximum DHW tank 6 pump speed % 1 0 0 100 41040 Maximum DHW tank 7 pump speed % 1 0 0 100 41041 Maximum DHW tank 8 pump speed % 1 0 0 100 41044 Maximum biff. Control pump speed % 1 0		, , ,	0/0			_	
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41063 O2 controller limitation if this is not released % 1 0 0 100							
TIME prominer content to recorder	41064	Nominal current for feed screw	A	10	1	0	3

41065	Nominal current for feed screw	Α	10	1	0	3
41067	During troubleshooting of feed screw, it turns backwards for	S	10	1	0	25
41068	During troubleshooting of feed screw, it turns forwards for	S	10	1	0	25
41071	Switch-on delay feed screw light barrier	S	10	1	0	25
41072	Switch-off delay feed screw light barrier	S	10	1	0	25
41073	High temperature requirement due to boiler 1 charge		1	0	0	1
41078	Screw 1 active		1	0	0	1
41079	Screw 2 active		1	0	0	1
41080	Maximum idle time of screw	m	1	0	0	320
41081	Switch-on delay feed screw light barrier	S	10	1	0	25
41082	Switch-off delay feed screw light barrier	S	10	1	0	25
41083	Maximum DHW tank flow temp Hc 1	°C	2	0	20	110
41085	Maximum DHW tank flow temp Hc 2	°C	2	0	20	110
41087	Control heating circuit according to program (NO -> heating circuit is switched off) HC 11		1	0	0	1
41088	Control heating circuit according to program (NO -> heating circuit is switched off) HC 12		1	0	0	1
41089	Control heating circuit according to program (NO -> heating circuit is switched off) HC 13		1	0	0	1
41090	Control heating circuit according to program (NO -> heating circuit is switched off) HC 14		1	0	0	1
41091	Control heating circuit according to program (NO -> heating circuit is switched off) HC 15		1	0	0	1
41092	Control heating circuit according to program (NO -> heating circuit is switched off) HC 16		1	0	0	1
41093	Control heating circuit according to program (NO -> heating circuit is switched off) HC 17		1	0	0	1
41094	Control heating circuit according to program (NO -> heating circuit is switched off) HC 18		1	0	0	1

Error buffer

Function: Read Input Registers (FC=04) Address Range: 33001-33020

Adr.	Description
33001	Error 1 / No Error = 0xffff (65535)
33002	Error 2
33003	Error 3
33004	Error 4
33005	Error 5
33006	Error 6
33007	Error 7
33008	Error 8
33009	Error 9
33010	Error 10
33011	Error 11
33012	Error 12
33013	Error 13
33014	Error 14
33015	Error 15

33016	Error 16
	Error 17
33018	Error 18
33019	Error 19
33020	Error 20

Texts for error buffer

Code	Description
000	Overheat Thermostat (STL) or EMERGENCY OFF activated
001	Boiler temperature sensor faulty
002	Primary air flap blocked
003	Secondary air flap blocked
004	Boiler has air leak
005	Test combustion chamber overpressure monitor
006	Back-fire slide valve does not close
007	Back-fire slide valve does not open
008	Grate drive defective
009	Grate fault
010	Grate cleaning fault
011	Igntion not successful
012	Safety time expired, oxygen content too high for too long
013	Safety time expired, flue gas temperature too low for too long
013	Boiler door open too long
014	Screw suction system suction point faulty
016	Check fuel outfeeder
017	Check fuel store
017	Return feed temperature faulty
019	Return feed temperature too low for more than 30 minutes
020	Remote control of heating circuit 1 faulty
021	Flow temperature sensor of heating circuit 1 faulty
021	Remote control of heating circuit 2 faulty
023	Flow temperature sensor of heating circuit 2 faulty
024	External temperature sensor faulty
025	EMERGENCY OFF switch was activated
025	Remote control in heating circuit 3 faulty
020	Remote control in heating circuit 4 faulty
027	Remote control in heating circuit 4 faulty
028	Remote control in heating circuit 5 faulty
030	Remote control in heating circuit 7 faulty
030	Remote control in heating circuit 8 faulty
031	Remote control in heating circuit 9 faulty
032	Remote control in heating circuit 10 faulty
033	Remote control in heating circuit 11 faulty
034	Remote control in heating circuit 12 faulty
035	Remote control in heating circuit 12 faulty
030	Remote control in heating circuit 14 faulty
	Remote control in heating circuit 15 faulty
038	Remote control in heating circuit 15 faulty
039	Remote control in heating circuit 17 faulty

041	Remote control in heating circuit 18 faulty
041	Outfeed temperature sensor in heating circuit 3 faulty
042	Outfeed temperature sensor in heating circuit 5 radity
043	Outfeed temperature sensor in heating circuit 5 faulty
044	Outfeed temperature sensor in heating circuit 6 faulty
043	Outfeed temperature sensor in heating circuit 7 faulty
040	Outfeed temperature sensor in heating circuit 7 radity
047	Outfeed temperature sensor in heating circuit o faulty
048	Outfeed temperature sensor in heating circuit 9 faulty
050	Outfeed temperature sensor in heating circuit 10 faulty
050	Outfeed temperature sensor in heating circuit 11 faulty
051	Outfeed temperature sensor in heating circuit 12 faulty
	Outfeed temperature sensor in heating circuit 13 faulty Outfeed temperature sensor in heating circuit 14 faulty
053	Outfeed temperature sensor in heating circuit 14 radity
054	Outfeed temperature sensor in heating circuit 13 faulty Outfeed temperature sensor in heating circuit 16 faulty
055	
056	Outfeed temperature sensor in heating circuit 17 faulty Outfeed temperature sensor in heating circuit 18 faulty
057	
058	Bus module faulty before power switched off
059	ID fan does not rotate, in spite of full activation Sensor in DHW tank 1 faulty
060	,
061	Communication with pellet module faulty
062	001 EEPROM Read error
063	
064	002 EEPROM Zero checksum
065	003 EEPROM Read error
066	004 EEPROM Incorrect software version
067	005 EEPROM Incorrect parameter length
068	006 EEPROM Read error
069	007 EEPROM Incorrect checksum 008 EEPROM Write error
070	009 EEPROM Write error
071	
072	010 Config. List faulty
073	Sensor in DHW tank 2 faulty
074	Sensor in DHW tank 3 faulty
075	Sensor in DHW tank 4 faulty
076	Sensor in DHW tank 5 faulty
077	Sensor in DHW tank 6 faulty
078	Sensor in DHW tank 7 faulty Sensor in DHW tank 8 faulty
079	·
080	Bottom sensor in DHW tank 1 faulty
081	Bottom sensor in DHW tank 2 faulty
082	Bottom sensor in DHW tank 3 faulty
083	Bottom sensor in DHW tank 4 faulty
084	Bottom sensor in DHW tank 5 faulty
085	Bottom sensor in DHW tank 6 faulty
086	Bottom sensor in DHW tank 7 faulty
087	Bottom sensor in DHW tank 8 faulty
088	Top sensor in storage tank 1 faulty
089	Top sensor in storage tank 2 faulty
090	Top sensor in storage tank 3 faulty

091	Top sensor in storage tank 4 faulty
092	Middle sensor in storage tank 1 faulty
093	Middle sensor in storage tank 2 faulty
094	Middle sensor in storage tank 3 faulty
095	Middle sensor in storage tank 4 faulty
096	Bottom sensor in storage tank 1 faulty
097	Bottom sensor in storage tank 2 faulty
098	Bottom sensor in storage tank 3 faulty
099	Bottom sensor in storage tank 4 faulty
100	Sensor in follow-up boiler faulty
101	Sensor in collector faulty
102	Sensor in additional boiler faulty
103	Fill level cannot be correctly interpreted
104	Bypass flap could not be opened
105	Bypass flap could not be closed
106	Runtime for filling was exceeded
107	Delivery screw is blocked at the suction point
108	Bypass flap could neither be closed nor opened
109	Ignition attempt failed, light by hand !
110	ID fan motor protection switch failed
111	Stoker motor protection switch failed
112	Feed screw motor protection switch failed
113	Back-burn flap opens too quickly
114	Back-burn flap closes too quickly
115	No/both end positions of back-burn flap activated
116	Rotary valve motor protection switch tripped
117	Lambda probe defective
118	Flue gas temperature sensor defective
119	Combustion chamber temperature sensor defective
120	Light barrier in gravity shaft defective
121	Drop box cover open
122	Underpressure sensor cartridge defective
123	Grate does not open
	Safety time expired because of fill level sensor in suction
124	cyclone.
125	Motor protection delivery screw
126	Stoker error
127	Delivery screws error
128	DANGEROUS status possible
129	Wood chip module failed -> immediate shutdown
130	Suction module failed -> immediate shutdown
131	Load fuel as per instructions
132	Return sensor for network pump defective
133	Light barrier in gravity shaft of delivery screw defective(full)
134	Drop box cover of delivery screw open
135	Delivery screw motor protection switch tripped
	Light barrier in gravity shaft of intermediate screw 1
136	defective(full)
137	Drop box cover of intermediate screw 1 open
138	Intermediate screw 1 motor protection switch tripped

139	Clean /check burner
140	Grate will not close
141	Back-burn flap will not close
142	Back-burn flap won't open
143	Rotary valve frequent overcurrent
144	Stoker screw frequent overcurrent
145	Feed screw frequent overcurrent
146	Control restart
147	Return feed sensor for feeder 1 faulty
148	Return feed sensor for feeder 2 faulty
149	Return feed sensor for feeder 3 faulty
150	Return feed sensor for feeder 4 faulty
151	Maximum feed after alteration re-calculated and limited
152	Light barrier in gravity shaft of intermediate screw 1 defective (empty)
153	Light barrier in gravity shaft of delivery screw defective (empty)
154	Slide valve blocked
155	Error in boiler and fuel selection
156	Self test error during preparation
157	Boiler air leak detected by feed
158	Boiler air leak detected by O2 monitoring
159	Sensor for circulation pump faulty
160	Sensor for solar heat exchanger secondary flow faulty
161	Sensor for solar collector return faulty
162	Lambda probe defective
163	Troubleshooting interrupted
164	Heat source sensor of difference controller defective
165	Heat sink sensor of difference controller defective Variant 3, a store and a manifold with the same number
166	activated
167	Probe switching during filling process due to lack of pellets
168	Supply bin empty, please top up pellets
169	Ash box full, please empty
170	Grate drive has overcurrent, please wait 5 minutes
171	Senosor 1 in STL casing or pellets unit faulty
172	Solar reference sensor faulty
173	Ash box full, please empty
174	Stoker motor not plugged in or not functioning
175	Broadband probe not plugged in or heating of probe defective
176	Sensor element of the broadband probe faulty or short-circuit
177	Stoker motor not plugged in or not functioning
178	Feed screw not plugged in or not functioning
179	Ash box too long open or removed
180	Under pressure in status Preparation too low
181	Air damper jammed
100	Return flow and DHW tank loading through HCP0 is not possible
182	(same sensor input)
183	Frequency convertor faulty Temperature monitoring of fan activated (Kliven)
184	Temperature monitoring of fan activated (Klixon)

left part of grate will not close right part of grate will not close left part of grate will not open right part of grate will not open right part of grate will not open left part of boiler charging pump activated left part of grate will not open left part of grat
187 left part of grate will not open 188 right part of grate will not open 189 Motor protection of combustion air blower fan activated 190 Motor protection of boiler charging pump activated 191 Too often overcurrent discharge screw 192 Too often overcurrent intermediate screw 193 Automatical room air flap will not open 194 Combustion air supply faulty or blocked 195 Safety time because of minimum sensor in cyclone expired 196 ID fan switch not in position AUTO 197 Motor protection sliding floor tripped 198 Oil level in power pack too low 199 High oil temperature in power pack 200 Key switch for hydraulic room not in position AUTO 201 Sliding floor averfill 202 Water temperature in pellet burner (Sensor 1) too high 203 WOS motor is blocked or not connected 204 Air flow through is too low or air supply is faluty 205 Self test error during preparation 206 Overfilling safety device of rotary valve is active
188 right part of grate will not open 189 Motor protection of combustion air blower fan activated 190 Motor protection of boiler charging pump activated 191 Too often overcurrent discharge screw 192 Too often overcurrent intermediate screw 193 Automatical room air flap will not open 194 Combustion air supply faulty or blocked 195 Safety time because of minimum sensor in cyclone expired 196 ID fan switch not in position AUTO 197 Motor protection sliding floor tripped 198 Oil level in power pack too low 199 High oil temperature in power pack 200 Key switch for hydraulic room not in position AUTO 201 Sliding floor averfill 202 Water temperature in pellet burner (Sensor 1) too high 203 WOS motor is blocked or not connected 204 Air flow through is too low or air supply is faluty 205 Self test error during preparation 206 Overfilling safety device of rotary valve is active
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198 Oil level in power pack too low 199 High oil temperature in power pack 200 Key switch for hydraulic room not in position AUTO 201 Sliding floor averfill 202 Water temperature in pellet burner (Sensor 1) too high 203 WOS motor is blocked or not connected 204 Air flow through is too low or air supply is faluty 205 Self test error during preparation 206 Overfilling safety device of rotary valve is active
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205 Self test error during preparation 206 Overfilling safety device of rotary valve is active
206 Overfilling safety device of rotary valve is active
207 Rotary valve is not connected or not functioning
,
208 Set numbers of cycles at sliding floor is exceeded
Boiler standard values aren 't adopted (Menu Set> General
209 settings)
210 Undergrate thermostat triggered
211 Under pressure in status Preparation too high
212 Grate drive reports that both end positions are acitve

System- and Boiler State

Function: Read Input Registers (FC=04)

Address Range: 34001-34002

Adr.	Description
34001	System state
34002	Boiler state

Texts for System state

Code	Description
000	winter op.
001	Summer op.
002	Transition op.
003	Firewood operation
004	Cleaning
005	Boiler off
006	Extra heating
007	Chimney sweep
800	Cleaning

Texts for Boiler state

Code	Description
000	FAULT
001	Boiler off
002	Heating up
003	Heating
004	Slumber
005	Off
006	Door open
007	Preparation
008	Pre-heating
009	Ignition
010	Shutdown wait
011	Shutdown wait 1
012	Shutdown feed 1
013	Shutdown wait 2
014	Shutdown feed 2
015	Cleaning
016	Wait 2h
017	Suction / Heating
018	Ignition fault
019	Standby
020	Close grate
021	Empty stoker
022	Pre-Heating Pre-Heating
023	Suction
024	Close BBF
025	Open BBF
026	Tip grate
027	Warming-Up / Ignition
028	Empty feed
029	Stoker fill
030	Warming-Up Lambda Probe
031	FD fan run-on I
032	FD fan run-on II
033	Stopped
034	Additional Ignition
035	Ignition wait
036	TS: Close BBF
037	TS: Ventilate boiler
038	TS: Ignition
039	TS: min. feed
040	Close BBF
041	FAULT: HL/ES
042	FAULT: Tilting grate
043	FAULT: C.C.Overpressure
044	FAULT: Door Switch
045	FAULT: ID Fan
046	FAULT: Heating system

047	ERROR: STL/EO
048	ERROR: Tilting grate
049	ERROR: C.C. Overpressure
050	ERROR: Door Switch
051	ERROR: ID Fan
052	ERROR: Heating system
053	ERROR: Stoker
054	FAULT: Stoker
055	TS: Empty stoker
056	Purge
057	FAULT: wood chip
058	ERROR: Wood chip
059	Emerg. Oper.: Door open
060	Emerg. Oper.: Heating up
061	Emerg. Oper.: Heating
062	ERROR: STL/EO
063	ERROR: General
064	Emerg. Oper.: Shutdown
065	Self test active
066	Troubleshooting 20min
067	ERROR: Drop box
068	FAULT: Drop box
069	Cleaning possible
070	Heating - Cleaning
071	LW Heating up
072	LW Heating
073	LW Heat/Shut down
074	FAULT save