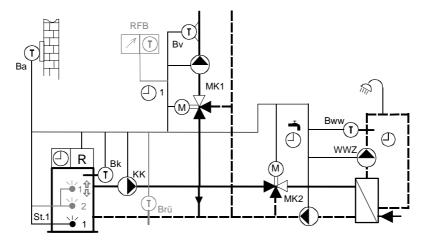


Application 3x3_042 (+90=42)

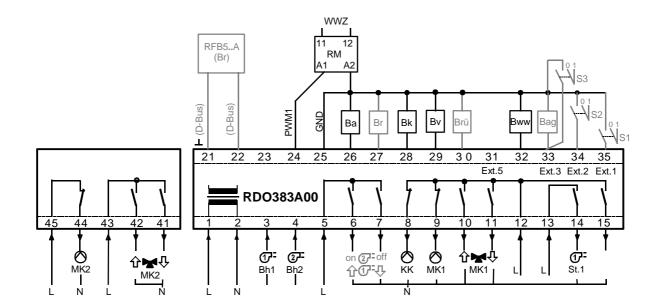
- Burner single stage
- 1 mix-heating circuit
- DHW charging with mixing valve and heat exchanger

Application for RDO 383 Options see page 2

Principle diagram



Installation/wiring diagram





DOMOTESTA RDO3x3A

Application 3x3_042



Terminal designation	Terminal number	Symbols designation	Description
A: 230VAC inputs and outputs	1 2, 5, 12, 13 3 4 6 7 8 9 10 11 14 15	N L	Neutral Phase Counter of operating hours burner stage 1 (230VAC) Counter of operating hours burner stage 2 (230VAC) Burner stage 2 ON / stage 1 modulation INCREASE Burner stage 2 OFF / stage 1 modulation DECREASE Boiler circuit pump Mix-circuit pump 1 Mixing valve 1 OPEN: command "warmer" Mixing valve 1 CLOSE: command "colder" Burner stage 1 ON
	43, 45 44 42 41	L Q3/ [©] MK2 Q2/ û ▲ MK2 Q1/ ▲ ∯ MK2	
B: Measure and control inputs	21 22 23 24 25	D-Bus D-Bus PWM2 PWM1 GND	Remote control bus for remote control units, Remote control bus for remote control units, Relay module or PWM output Relay module or PWM output Ground
	26 27 28 29 30 31	Ba Br Bk B∨ Brü Bres	Outdoor temperature sensorFT12AFreeBoiler temperature sensorRFT203BFlow temperature mix-circuit 1FT1A (FT2A)FreeFree
	32 33 34 35	Bww Bag Ext.2 Ext.1	DHW temperature sensor 1 RFT203B (FT2A) Free Aux. input 2 Aux. input 1

Factory settings are listed on following pages.

Options:

Change the following parameters for additional functions. Detailed information of the single parameters are available from your user manual!

Settings for:

Heat gen	era	ator
102	2	heat generator dual stage o

Return temperature sensor 128 24 Return temperature sensor

102	2	heat generator dual stage or
102	3	modulating heat generator



Parameter factory settings

Master controller

		ontroller
	gy pro	duction:
100	1	Oil / gas boiler only
101	0	Number of cascade modules
102,1		See boiler 1, 2
104	0	Boiler cascade: weather compensated
105		See boiler 1, 2
106		Boiler cascade: release 2 nd step at 100% power
107	0	Boiler cascade, regular sequence
108	0	
109		See boiler 1, 2
10d		Outdoor temperature for release 2 nd step
10E		Bypass-pump: not used
10F	0	Buffer storage: not used
10h	_	See boiler 1, 2
10J		Solar hydraulics: not used
10L		Output diverting valve: not used
10n	0	Energy release at Δ Bv set/actual
Conf	igurati	on of energy distribution/hydraulics
110	1	1 mix-heating circuit only
111	0	Number of extra mix-heating circuits (RZM510)
112,	113	See zone 1, 2
114		Heating circuit pump 1: ON/OFF
115	0	Heating circuit pump 2: ON/OFF
116,	117	See DHW circuit 1
118		Electrical DHW heater: not used
119		Number of external DHW modules (RZM515A)
11A	0	Boiler circuit pump (terminal. 8): by demand
11b		See boiler 1, 2
11d	0	Return temperature reg.: not used
11E		See zone 1, 2
11F		See DHW circuit 1
Conf	iqurati	on of electrical inputs and outputs
	igurati 1	on of electrical inputs and outputs Aux.1 (terminal 35): standby
120	-	Aux.1 (terminal 35): standby
	1 2	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation
120 121	1 2 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used
120 121 122	1 2 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used
120 121 122 123	1 2 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used
120 121 122 123 124	1 2 0 0 1 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2
120 121 122 123 124 125	1 2 0 0 1 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used
120 121 122 123 124 125 126 127 128	1 2 0 0 1 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used
120 121 122 123 124 125 126 127	1 2 0 0 1 0 23	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1
120 121 122 123 124 125 126 127 128	1 2 0 0 1 0 23 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used
120 121 122 123 124 125 126 127 128 129 12A 12b	1 2 0 0 1 0 23 0 1 0 1 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c	1 2 0 0 1 0 23 0 1 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d	1 2 0 0 1 0 23 0 1 0 1 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d 12E	1 2 0 0 1 0 23 0 1 23 0 1 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d 12E 12F	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Multi switch 9.4 (terminal 27): not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d 12E 12F 12L	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Multi switch 9.4 (terminal 27): not used Independent time switch HC 7 output: not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d 12E 12F	1 2 0 0 1 0 23 0 1 23 0 1 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Multi switch 9.4 (terminal 27): not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d 12E 12F 12L 12n	1 2 0 0 1 0 2 3 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Multi switch 9.4 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d 12c 12d 12E 12F 12L 12n Conf	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12F 12L 12n Conf 130	1 2 0 0 1 0 2 3 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent functions Indication field 1: heat generator temperature
120 121 122 123 124 125 126 127 128 129 12A 12b 12c 12d 12c 12c 12c 12c 12c 12c 12c 12c 12c 12c	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12F 12L 12n Conf 130	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent functions Indication field 1: heat generator temperature
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12F 12L 12n Conf 130 131 132	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature Status display: on at "manual" or "service" Time source: internal clock
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12F 12L 12n Conf 130 131 132 133	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Son of controller functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature Status display: on at "manual" or "service"
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12F 12L 12n Conf 130 131 132 133	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 31): not used Ba (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Son of controller functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature Status display: on at "manual" or "service" Time source: internal clock Summertime change-over (time +1h): last
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12L 12F 130 131 132 133 135	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature Status display: on at "manual" or "service" Time source: internal clock Summertime change-over (time +1h): last Sunday in March
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12L 12r 130 131 132 133 135 136 137	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Son of controller functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature Status display: on at "manual" or "service" Time source: internal clock Summertime change-over (time +1h): last Sunday in March Wintertime change-over (time -1h): last Sunday in October Baudrate PC connection RS232
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12L 12r 130 131 132 133 135 136 137 138	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Son of controller functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature Status display: on at "manual" or "service" Time source: internal clock Summertime change-over (time +1h): last Sunday in March Wintertime change-over (time -1h): last Sunday in October Baudrate PC connection RS232 Controller address
120 121 122 123 124 125 126 127 128 129 12A 129 12A 12b 12c 12d 12E 12L 12r 130 131 132 133 135 136 137	1 2 0 0 1 0 23 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aux.1 (terminal 35): standby Aux.2 (terminal 34): summer operation Bag (terminal 33): not used Bres (terminal 26): outdoor temperature Br (terminal 26): outdoor temperature Br (terminal 27): not used See boiler 1, 2 Bv (terminal 29): flow temperature Brü (terminal 30): not used Independent time switch: external relay PWM1 Output 2 nd source switch point: not used Output error warning: not used Multi switch 9.1 (terminal 27): not used Multi switch 9.2 (terminal 27): not used Multi switch 9.3 (terminal 27): not used Independent time switch HC 7 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Independent time switch DHW 4 output: not used Son of controller functions Indication field 1: heat generator temperature Indication field 2: outdoor temperature Status display: on at "manual" or "service" Time source: internal clock Summertime change-over (time +1h): last Sunday in March Wintertime change-over (time -1h): last Sunday in October Baudrate PC connection RS232

13A	See zone 1,2
13b	See boiler 1, 2
13c	See DHW circuit 1
	Counter factor 1
	Counter factor 2
Configuration	on of heat generator and district heating
140148	
149 10	
	District heating return temperature 1
	Bend point 2
	District heating return temperature 2
14d 20	P-band valve drive
14E 2	Transition time of valve drive
14F 0	Allowed number of heat generator starts per hour
14h, 14J	See zone 1, 2
Configurati	on of limitations and boiler protection
150, 151	See boiler 1, 2
	See zone 1, 2
153, 154	· · · · · · · · · · · · · · · · · · ·
155157	See boiler 1, 2
158 0	
159	See zone 1, 2
15A 0	
15b 4	
15c 0	
15E	See zone 1, 2
15F	See boiler 1, 2
Configuration	on of heating curve
160162	See zone 1, 2
	Auxiliary boiler temperature at fixed point
164, 165	See zone 1, 2
	Adapted boiler temperature at design point
167169	
	Source of boiler temperature: internal sensor
16b 0	Source of return temperature: internal sensor
	•
Optimizatio	
170174	
175	See DHW circuit 1
Configuration	on of special operation modes
180183	See zone 1, 2
185 1	Pump protection during summer operation
186	See zone 1, 2
187 1	Frost protection temperature
188 2	
18c 0	Function of independent time switch: not used
• • •	
	on of DHW charging
190194	See DHW circuit 1
195 0	ger and and a set a
196	See zone 1, 2
197199	See DHW circuit 1
19A 0	
19b	See zone 1, 2
19c19h	See DHW circuit 1
Configuration	on of solar operation
1A1 6	
1A1 0	
1A2 2 1A3 0	
1A3 0	
1A4 240 1A5 1	Back cooling to collector at night
1A5 1 1A6 80	- · · · · · - · · · - · · · · · · · · ·
1A0 80 1A7 20	
171 20	AT OTT TOT Max. Dullet storage temperature

3x3_042e_v4 / 01.05 Specifications are subject to change DOMOTESTA RDO3x3A

Application 3x3_042



1A8		
IAO	-20	Frost protection of collector
1A9	0	
1AA	0	Output solar energy beyond capacity: not used
1Ab	300	Volume flow rate of solar pump
1Ac		Specific heat capacity
1Ad		Collector efficiency
1AF	10	Collector absorber area
Confi	gurati	on of PWM1 control
1b0		Cycle time of PWM1 signal
1b1	40	Minimum PWM1 signal strength
1b2	100	
1b4	0	
1b5	100	Temperature (>) at max. PWM signal
Distri		ting with 2 nd HE for DHW charging
1d9	10	Bend point 1
1dA		Return temperature at bend point 1
1db		Bend point 2
1dc		Return temperature at bend point 2
1dd 1dE		P-band of valve drive Transition time of valve drive
TUE	Ζ.	
		parameters
1EA	0	Output storage charging pump: not used
Zone	e 1, 2	
		ribution / hydraulics
112		Characteristic of valve drive: 3-point
113	2	
11E	0	Heating circuit special function: not used
Confi	gurati	on of controller functions
13A	4	Remote operation mode: Auto "normal/frost"
Confi	aurati	on of heat generator and district heating
14h		Offset ON flow temperature difference set/actual
14J	3	Offset OFF flow temperature difference set/actual
Confi	qurati	on of limitations and boiler protection
153	-	Flow temperature minimum
154		Flow temperature maximum
159	0	Alternate minimum flow temperature
15E	0	Minimum return temperature offset
Confi	gurati	on of heating curve
160		Flow temperature at Ta=20°C
161	-10	1 <u>0</u> 1
162	60	· · · · · · · · · · · · · · · · · · ·
164	20	Adapted flow temp. at fixed point (Ta=20°C)
165	60	Adapted flow temp. at design point
167	1 8	Adaptation: ON (manual and automatic) Setpoint raise vs. flow temperature setpoint
160		Selboint raise vs. now temperature selboint
168 169		
169	1	Source of outdoor temp.: outdoor sensor 1
169 Optin	1 nisatio	Source of outdoor temp.: outdoor sensor 1 n
169 Optin 170	1 n isatio 2	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design
169 Optin 170 171	1 n isatio 2 0	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K)
169 Optin 170 171 172	1 n isatio 2 0 1	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced
169 Optin 170 171 172 173	1 nisatio 2 0 1 120	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start
169 Optin 170 171 172 173 174	1 nisatio 2 0 1 120 60	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start Maximum time shift for heating end
169 Optin 170 171 172 173 174 Confi	1 nisatio 2 0 1 120 60 gurati	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start Maximum time shift for heating end on of special operation modes
169 Optin 170 171 172 173 174 Confi 180	1 nisatio 2 0 1 120 60 gurati 1	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start Maximum time shift for heating end on of special operation modes Automatic short term heating limit
169 Optin 170 171 172 173 174 Confi 180 181	1 nisatio 2 0 1 120 60 gurati 3.0	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start Maximum time shift for heating end on of special operation modes Automatic short term heating limit ΔT for automatic summer / winter heating limit
169 Optin 170 171 172 173 174 Confi 180 181 182	1 nisatio 2 0 1 120 60 guratio 1 3.0 1	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start Maximum time shift for heating end on of special operation modes Automatic short term heating limit ΔT for automatic summer / winter heating limit Remote control room sensor: Active
169 Optin 170 171 172 173 174 Confi 180 181	1 nisatio 2 0 1 120 60 guratio 1 3.0 1	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start Maximum time shift for heating end on of special operation modes Automatic short term heating limit ΔT for automatic summer / winter heating limit Remote control room sensor: Active Influence of room temperature
169 Optin 170 171 172 173 174 Confi 180 181 182 183 186	1 nisatio 2 0 1 120 60 guratio 1 3.0 1 25 2	Source of outdoor temp.: outdoor sensor 1 n Thermal lag of building: Normal design Boost heating cut-off: economy (-0.75K) Begin and end of heating period advanced Maximum time shift for heating start Maximum time shift for heating end on of special operation modes Automatic short term heating limit ΔT for automatic summer / winter heating limit Remote control room sensor: Active

19b 1 Allocation to heating	circuits: DHW of RDO
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Boiler 1, 2..

Configuration of energy:

- 102 1 Heat generator single stage
- 0 Flue gas sensor: not used 103
- 105 0 Boiler cascade, shut-off valve used
- 109 50 Boiler cascade, partial load switch point
- 10A 10 Boiler cascade, wait time to next stage
- 10b
- Boiler cascade, boiler standby time
 Boiler cascade, 2nd source switching point 10c
- 10h 0 Boiler cascade, virtual setpoint shift

Energy distribution / hydraulics

11b 0 Output PWM1: not used

Configuration of electrical inputs and outputs

126 0 Input Bh2: Counter of operating hours burner 2

Configuration of controller functions

4 Remote operation mode: Auto 13b

Configuration of heat generator and district heating

140	6	Switching difference for burner stage 1
141	8	Switching difference for burner stage 2
142	1	Wait time to stage 2
143	2	Minimum burner stage 2
144	30	Modulation P-band
145	10	Modulation offset P-band
146	30	Modulation integral phase
147	0	Modulation differential phase
148	60	Modulating burner transition time

Configuration of limitations and boiler protection

150	38	Boiler temperature minimum limitation	
4 - 4	00	Dellas terra enstructure de cincura lineitation	

- 90 Boiler temperature maximum limitation 151
- 155 0 Return temperature minimum
- 156 240 Flue gas temperature maximum
- 157 1 Boiler start up relief, DHW discharge protection
- 15F 0 Return temperature minimum limit offset

Configuration of special operation modes

188 2 Follow-up time of boiler circuit pump

DHW circuit 1

Energy distribution / hydraulics

- 17 DHW hydraulics: mix-heating circuit to HE 116
- 117 1 DHW equipment: sensor connected input Bww
- 11F 0 DHW circuit energy demand

Configuration of controller functions

```
4 Remote operation mode: Auto
13c
```

Optimisation

```
0 DHW charge: according to switch program
175
```

Configuration of DHW charging

- 190 65 Maximum temperature of DHW setpoint
- 191 6 Switching difference DHW
- 192 0 Anti legionella function: not used
- 193 10 Setpoint raise on DHW charge
- 80 Alternate boiler temperature setpoint 194
- 2 Follow-up time of DHW charging pump 197
- Electrical DHW charge: Ext. signal 198 1
- 199 0 DHW forced charging: not used
- 19c 10 Setpoint raise DHW mix-circuit 1
- 5 Setpoint raise DHW mix-circuit 2 19d
- 19E 2 Transition time DHW mixer 1
- 19F Transition time DHW mixer 2 2
- 19h DHW pump operation: independent time switch 2

0 No priority, heating works independently

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