Installation Instructions

District heating and d.h.w. controller

**RVD120 RVD140** 



Keep these instructions with the controller!

#### Installation

#### Place of installation

- In a dry room, e.g. the heat exchanger room
- · Mounting choices:
  - In a compact station
  - In a control panel (in the front, on the inner wall, or on a top hat rail)
  - In the sloping front of a control desk
- Permissible ambient temperature: 0...50 °C

#### **Electrical installation**

- Local regulations for electrical installations must be complied with
- · Only qualified staff may carry out electrical installations
- · Cable tension relief must be ensured
- · Cable glands made of plastic must be used
- The cables from the controller to the actuators and pumps carry mains voltage
- The cables to the sensors may not be run parallel to mains carrying cable (safety class II to EN 60730!)
- If a device is defective or damaged, immediately disconnect it from power and replace it

#### Permissible cable lengths

• For all sensors:

Copper cable 0.6 mm dia. 20 m max. Copper cable 1.0 mm<sup>2</sup> 80 m max. Copper cable 1.5 mm<sup>2</sup> 120 m max.

For room units:

Copper cable 0.25 mm<sup>2</sup> 25 m max. Copper cable from 0.5 mm<sup>2</sup> 50 m max.

For the data bus

Copper cable ≥0.25 mm<sup>2</sup> 1000 m max.

(2-wire, twisted pairs, shielded)

For details, refer to the modbus specification

#### Mounting and wiring the base

#### Wall mounting

- Separate base from the controller
- Hold base against the wall. Marking "TOP" must be at the top!
- 3. Mark fixing holes on the wall
- 4. Drill holes
- If required, knock out holes on the base for cable glands
- 6. Screw base to the wall
- 7. Wire up base

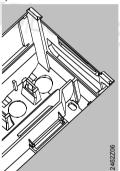
#### Rail mounting

- 1. Fit top hat rail
- 2. Separate base from the controller
- If required, knock out holes on the base for cable glands
- 4. Fit base to the rail. Marking "TOP" must be at the top!
- If required, secure base (depending on the type of rail used)
- 6. Wire up base

#### Flush panel mounting

- · Maximum thickness: 3 mm
- Panel cutout required: 138 × 92 mm
- 1. Separate base from the controller
- If required, knock out holes on the base for cable glands
- 3. Insert base in the panel cutout from behind until stop is reached. Marking "TOP" must be at the top!
- 4. Push lateral tongues behind the front panel (refer to illustration below)





Wrong

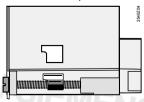
Correct

Place tongues on both sides correctly – they may not be located inside the cutout!

Wire up base. Make sure the cable lengths are such that there is sufficient space to open the control panel door

#### Securing the controller to the base

 Ensure correct position and location of levers by turning the fixing screws (refer to illustration on the lateral wall of the unit)



- Insert controller in the base until stop is reached. Marking "TOP" must be at the top!
- 3. Tighten fixing screws alternately

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#### Commissioning

### **Preparatory checks**

- 1. DO NOT switch on power supply yet
- 2. Check wiring according to the plant connection diagram
- 3. Check each motorized valve: see if
  - it is correctly installed (observe direction of flow indicated on the valve body)
  - the manual lever is disengaged

## 4. Note with underfloor and ceiling heating systems!

The limit thermostat must be set to the correct value. During the functional test, the flow temperature may not exceed the maximum permissible level (usually 55 °C). If it does, proceed immediately as follows:

- Either close the valve manually, or
- Switch off the pump, or
- Close the pump isolating valve
- Switch on power supply. The display must show the time of day. If not, the reason may be one of the following:
  - No mains voltage present
  - Main fuse defective
  - Mains isolator or main switch not set to ON
- 6. If one of the operating mode buttons flashes, the room unit overrides the controller. Select operating mode ⊕ on the room unit

#### General information about operation

- Setting elements for commissioning:
  - Nominal room temperature setpoint: with the setting knob
  - Other variables: in the display, where one operating line is assigned to each setting
- Buttons for selecting and readjusting the values:
  - To select the next operating line below
  - To select the next operating line above
  - To decrease the displayed value
- Adopting a setting value:

The setting value is adopted by selecting the next operating line (or by pressing one of the operating mode buttons)

- Block jump function:

To select a single operating line quickly, two button combinations can be used:

Keep  $\bigtriangledown$  depressed and press  $\bar{\circlearrowleft}$  to select the next line block below

 The display lighting turns on for a period after pushing a button

#### Setting procedure

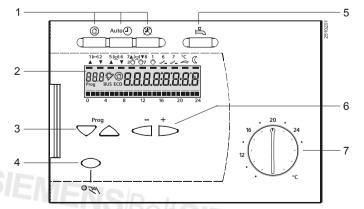
Enter all adjusted values in the tables provided!

- Make settings on the "End-user" level (operating lines 1...49)
- 2. Configure plant type on operating lines 51...55
- Make the relevant settings in the parameter list below. All functions and operating lines configured for the type of plant are activated and adjustable. All operating lines that are not required are locked.
- 4. Make settings on the "Heating engineer's" level (operating lines 56...222).
- Make settings on the "Locking functions" level (operating lines 226...251)

#### Commissioning and functional check

- · Specific operating lines for the functional check:
  - 141 = sensor test
  - 142 = relay test
- 149 = reset of service settings
- If Er (Error) appears in the display: interrogate operating line 50 to pinpoint error

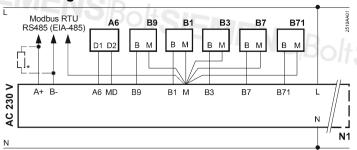
## Setting elements



- 1 Operating mode buttons
- 2 Display (LCD)
- 3 Buttons for selecting operating lines
- 4 Button for manual operation ON / OFF
- 5 Button for d.h.w. heating ON / OFF
- 6 Buttons for making readjustments of values
- 7 Setting knob for nominal room temperature setpoint

## **Connection diagrams**

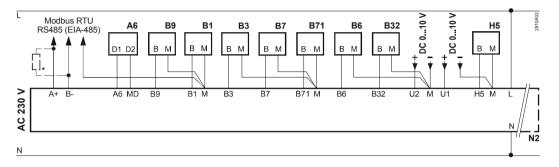
#### Low voltage side



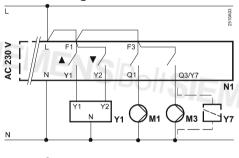
**RVD120** 

 $^{\star}$  Terminating resistor 150  $\Omega$  (0.5 W) for the first and last device on the bus. See Modbus specification for details

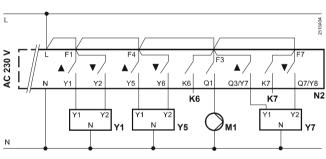
**RVD140** 



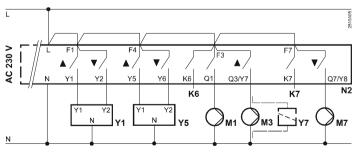
Mains voltage side



**RVD120** (plant types 1, 2 and 3)



RVD140 (plant type 5)
Three actuators and one pump



**RVD140** (plant types 1, 2, 3, 4, 6, 7 and 8) Two actuators and three pumps or two pumps and one changeover valve

A6	Room unit	M1	Heating circuit pump
B1	Flow sensor	M3	D.h.w. charging pump
B3	D.h.w. sensor / storage tank sensor 1	M7	Circulating pump
B32	Storage tank sensor 2	Modbus RTU	Data bus
B6	Collector sensor	N1	Controller RVD120
B7	Primary return sensor	N2	Controller RVD140
B71	Universal sensor	U1	Secondary pressure sensor
B9	Outside sensor	U2	Primary pressure sensor
H5	Flow switch	Y1	Actuator of two-port valve in the primary return
K6 and K7	Multifunctional outputs for refill function /	Y5	Actuator of two-port valve / mixing valve
	electric immersion heater / collector pump	Y7	Actuator of changeover valve / mixing valve

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## **Parameter list**

## Settings on the "End-user" level

Press ♥ or △ to activate the "End-user" level

Line	Function, display	Factory setting (Range)	Setting	Explanations, notes and tips
1	Current nominal room temperature setpoint	Display function	on	Including room unit
2	Reduced room temperature setpoint	14 °C (variable*)	°C	* From frost protection setpoint to nominal setpoint
3	Frost protection / holiday mode setpoint	8 °C (variable*)	°C	* From 8 °C to reduced setpoint Holiday setting only with room unit
5	Heating curve slope	1.5 (0.254.0)		
6	Weekday, for entering the heating program	Current weekday (17 / 1-7)		1 = Monday 2 = Tuesday etc. 1-7 = entire week
7	Heating period 1 start	6:00 (: / 00:0024:00)		Switching program for heating circuit: = period inactive
8	Heating period 1 end	22:00 (: / 00:0024:00)		Switching program for heating circuit: = period inactive
9	Heating period 2 start	: (: / 00:0024:00)		Switching program for heating circuit: = period inactive
10	Heating period 2 end	: (: / 00:0024:00)		Switching program for heating circuit: = period inactive
11	Heating period 3 start	: (: / 00:0024:00)		Switching program for heating circuit: = period inactive
12	Heating period 3 end	: (: / 00:0024:00)		Switching program for heating circuit: = period inactive
13	Time of day	(00:0023:59)		
14	Weekday	Display function	on S	1 = Monday 2 = Tuesday etc.
15	Date	(01.0131.12)		Day.Month
16	Year	(20092099)		POIDLEN
17	Weekday, for entering the d.h.w. program	Current weekday (17 / 1-7)		1 = Monday 2 = Tuesday etc. 1-7 = entire week
18	Release period 1 start	6:00 (: / 00:0024:00)		Switching program for d.h.w: = period inactive
19	Release period 1 end	22:00 (: / 00:0024:00)		Switching program for d.h.w: = period inactive
20	Release period 2 start	: (: / 00:0024:00)		Switching program for d.h.w: = period inactive
21	Release period 2 end	: (: / 00:0024:00)		Switching program for d.h.w: = period inactive
22	Release period 3 start	: (: / 00:0024:00)		Switching program for d.h.w.
23	Release period 3 end	: (: / 00:0024:00)		Switching program for d.h.w.
24	Room temperature	Display function		
25	Outside temperature	Display function	on	Press
26	D.h.w. temperature	Display function		
27	Flow temperature heating circuit	Display function	on Role o	Keep    or   depressed: current setpoint is displayed
41	Setpoint d.h.w. temperature NORMAL	55 °C (variable)	°C	IEMENS Ration
42	Setpoint d.h.w. temperature REDUCED	40 °C (variable*)	°C	* From 8 °C to normal d.h.w. setpoint

49	Reset of operating lines 212, 1723 and 41, 42		Press
50	Faults	Display function	10 = fault outside sensor 30 = fault flow sensor 40 = fault return sensor (primary side) 42 = fault return sensor (secondary side) 50 = fault d.h.w sensor / storage tank sensor 1 52 = fault storage tank sensor 2 61 = fault room unit 62 = connected unit shows wrong identification 73 = fault collector sensor 78 = fault secondary pressure sensor 86 = short-circuit on room unit bus (PPS) 170 = fault primary pressure sensor 195 = maximum refill period per charge reached 196 = maximum refill period per week reached

#### Settings on the "Heating engineer's" level

Press  $\bigtriangledown$  and  $\bigtriangleup$  simultaneously for 3 seconds, thus activating the "Heating engineer's" level for configuring the plant type and for setting the plant-related variables. The "End-user" level remains activated.

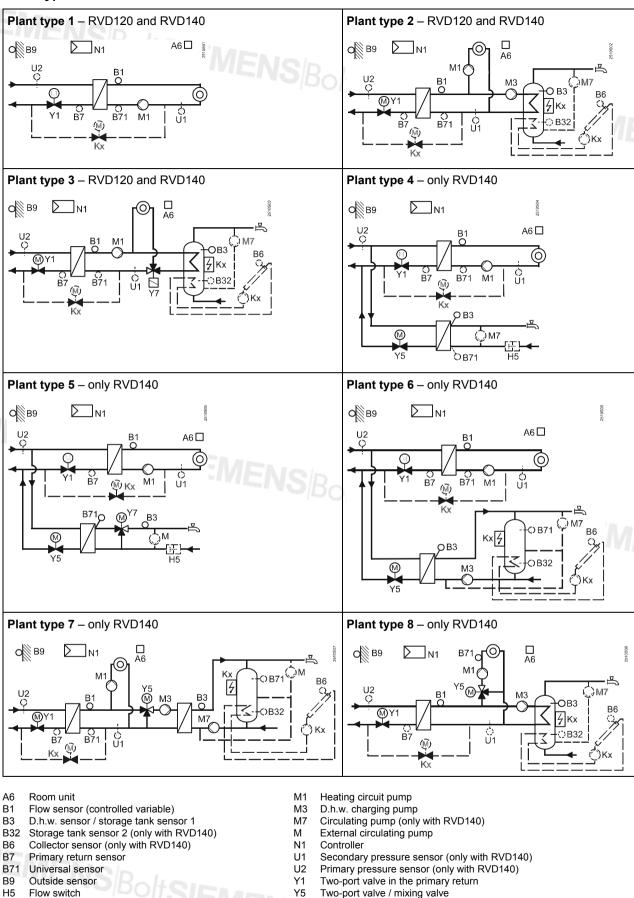
#### Configuration of plant

The required plant type must be configured on operating lines 51...55. This activates all functions and operating lines required for the particular type of plant, which can then be set.

51	Plant type	1 (13 or 18)		RVI	<b>D120</b> : range 1 <b>D140</b> : range 1 the diagrams. re	
52	Space heating present Only with plant types 28	1 (0 / 1)	240	0 =	no space heating pace heating p	ng present
53	Use of universal sensor Only with plant types 4, 6, 7	1 (0 / 1)			secondary retu d.h.w. sensor	rn sensor
54	Flow switch present / circulating pump present (heat	0 (03)			Flow switch present	Circulating pump present
	losses are compensated)	` ,		0 =	no	insignificant (heat losses fully compen- sated [100 %])
				1 =	yes	no
				2 =	yes	yes, heat losses partly compensated (80 %)
					yes	yes, heat losses fully compensated (100 %
55	Return flow of circulating pump	0 (02)		1 = 2 =	heat exchanger pensated (80 % heat exchanger pensated (100	r, heat losses fully com- %)
56	Periodic pump run (pump kick)	1 (0 / 1)			no periodic pun weekly pump ru	
57	Winter- / summertime changeover	25.03 (01.0131.12)		Sett	ting: the earliest	possible changeover date
58	Summer- / wintertime changeover	25.10 (01.0131.12)				possible changeover date
	changeover					

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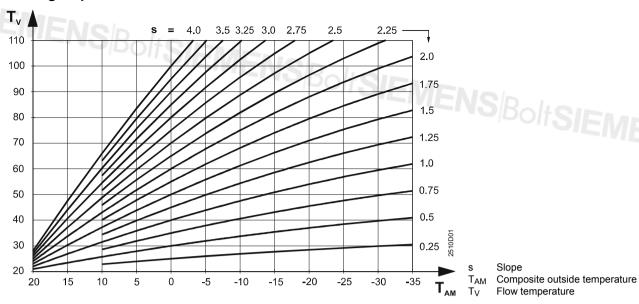
#### Plant types



Multifunctional output K6 or K7 (only with RVD140) Kx

Υ5 Two-port valve / mixing valve Changeover valve

## Heating slope chart



#### **Function blocks**

#### Block "Space heating"

DIOCK	Space nealing			
61	Heating limit (ECO)	–3 K		= function deactivated
		( / –10+10)	K	
62	Building structure	1		0 = heavy
		(0 / 1)		1 = light
63	Quick setback without room	1		0 = no quick setback
	sensor	(015)		1 = min. setback time
	Dollei			15 = max. setback time
69	Heat gains	0 K		Setting in K room temperature
		(-2+4)	K	I Property
70	Room temperature influence	10	Cilo	Function can be provided only with room
	(gain factor)	(020)		sensor
71	Parallel displacement of heat-	0.0 K		Setting in K room temperature
	ing curve	(-4.5+4.5)	K	JILIV
72	Overrun time heating circuit	4 min		0 = no pump overrun
	pump	(040)	min	
73	Frost protection for the plant	1		0 = no frost protection for the plant
	-	(0 / 1)		1 = frost protection for the plant
74	Max. limitation of room tem-	K		Limit value: nominal setpoint plus setting on
	perature	( / 0.54)	K	this line
				= function deactivated

#### Block "Actuator heat exchanger"

81	Actuator Y1 running time com- mon flow	120 s (10873)	9	
82	P-band common flow control	35 K		
83	Integral action time common	(1100) 120 s	N	
	flow control	(10873)	S	
85	Max. limitation of common flow temperature	°C ( / variable*140)	°C	* Min. value on operating line 86 = no limitation
86	Min. limitation of common flow	°C		* Max. value on operating line 85
	temperature	( / 8variable*)	°C	= no limitation

#### Block "Actuator heating circuit"

91	Actuator running time heating	120 s		
	circuit	(10873)	S	
92	P-band heating circuit control	35 K		
		(1100)	K	
93	Integral action time heating	120 s	0/10	
	circuit control	(10873)	S	I-MENO-
94	Setpoint boost for control of the	10 K		-WENS Rollo
	common flow (B1 and Y1)	(050)	K	POISIEM
				- ULIVI

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h/day) d.h.w. program heating program	0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	D.h.w. temperature sensor   0	ture heating circ lock "D.h.w heating" 98 D.h.w. tempera	heating circuit  w heating"  w temperature sensor  0 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  ease of d.h.w. heating  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program	Min. limitation of flow temperature heating circuit   C or C	ture heating circuit  ( / 8variable*)  0 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  1 Release of d.h.w. heating 0 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program	ture heating circuit  ( / 8variable*)  "C = no limitation  "D =	Min. limitation of flow temperature heating circuit    Carrow further heating circuit	ture heating circuit  ( / 8variable*)  0 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating Setting = 0  1 Release of d.h.w. heating 0 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program
d.h.w. program heating program	1 = according to the d.h.w. program 2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	D.h.w. temperature sensor   0	ture heating circ lock "D.h.w heating" 98 D.h.w. tempera	heating circuit  w heating"  w temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  ease of d.h.w. heating  0 (03)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with	Min. limitation of flow temperature heating circuit   Max. value on operating line 95	ture heating circuit  ( / 8variable*)  0	ture heating circuit  ( / 8variable*)  "C = no limitation  "D =	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *A substitution  * Max. value on operating line 95 = no limitation  * A substitution  *	ture heating circuit  ( / 8variable*)  0
heating program	2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	Cock "D.h.w heating"   0	ture heating circ  lock "D.h.w heating"  D.h.w. tempera	heating circuit	Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation   Min. limit	ture heating circuit  ( / 8variable*)  ©C = no limitation  Ck "D.h.w heating"  D.h.w. temperature sensor  0	ture heating circuit  ( / 8variable*)  "C = no limitation  0   0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  11   Release of d.h.w. heating  0   0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( / 8variable*)  °C ( = no limitation  °C ( = no li	ture heating circuit  ( / 8variable*)  0
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unction	1 = Monday 2 = Tuesday etc. 1-7 = entire week	Cock "D.h.w heating"   0	ture heating circ  lock "D.h.w heating"  D.h.w. tempera	heating circuit  w heating"  w. temperature sensor  0 (02)  ease of d.h.w. heating  0 (03)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1	Min. limitation of flow temperature heating circuit   °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = automatically, without solar d.h.w. heating     °C   ( / 8variable*)   0 = permanently (24 h/w. heating     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = automatically, without solar d.h.w. heating     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = automatically, without solar d.h.w. heating     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   = no limitation     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   = no limitation     °C   = no limitat	ture heating circuit  ( / 8variable*)  0	ture heating circuit  ( / 8variable*)  "C = no limitation  0   0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  11   Release of d.h.w. heating   0   0 = permanently (24 h/day)   1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  12   Release of circulating pump   1   0 = permanently (24 h/day)   1 = according to the d.h.w. program   1 = according	Min. limitation of flow temperature heating circuit    Cock "D.h.w heating"   Cock "D.h.w heating"   Cock "D.h.w. temperature sensor   Cock "D.h.w. heating "1	ture heating circuit  ( / 8variable*)  ( = no limitation  (   8variable*)  (   8variable*)  ( = no limitation  (   8variable*)  (   9
unction	2 = Tuesday etc. 1-7 = entire week	Description	ture heating circulock "D.h.w heating"  D.h.w. temperar  Release of d.h.  Release of circulocal	heating circuit  w heating"  w. temperature sensor  0 (02)  ease of d.h.w. heating  0 (03)  case of circulating pump  1 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1	Min. limitation of flow temperature heating circuit   °C   / 8variable*     * Max. value on operating line 95   = no limitation     °C   * Max. value on operating line 95   = no limitation     °C   * Max. value on operating line 95   = no limitation     °C   * Max. value on operating line 95   = no limitation     °C	ture heating circuit  ( / 8variable*)  Ck "D.h.w heating"  D.h.w. temperature sensor  (02)  1 e one sensor with solar d.h.w. heating 2 two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  Release of d.h.w. heating  (03)  1 e according to the d.h.w. program 2 e according to the heating program with forward shift (operating line 109)  Release of circulating pump  1 comparison of the d.h.w. program 2 e according to the heating program 2 e according to the heating program 2 e according to the heating program	ture heating circuit  ( / 8variable*)  "C = no limitation  "E =	Min. limitation of flow temperature heating circuit	ture heating circuit  ( / 8variable*)  Ck "D.h.w heating"  D.h.w. temperature sensor  (02)  D.h.w. temperature sensor  (02)  Description  (02)  Description  Occurrence  (02)  Description  Occurrence  (02)  Description  Occurrence  (02)  Description  Occurrence  Occurrence  (02)  Description  Occurrence
unction	1-7 = entire week	Cock "D.h.w heating"   0	ture heating circulock "D.h.w heating"  D.h.w. temperar  Release of d.h.  Release of circulocal	heating circuit  .w heating"  w. temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  ease of d.h.w. heating  0	Min. limitation of flow temperature heating circuit   °C ( / 8variable*)   * Max. value on operating line 95 ( = no limitation	ture heating circuit  ( / 8variable*)  Ck "D.h.w heating"  D.h.w. temperature sensor  (02)  1 e one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  Release of d.h.w. heating  (03)  1 e according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  Release of circulating pump  Release of circulating pump  1 constant program with forward shift (operating line 109)  Release of circulating pump  1 constant program 2 = according to the d.h.w. program 2 = according to the heating program  D.h.w. switching differential  5 K	ture heating circuit	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck "D.h.w heating"
unction		Cock "D.h.w heating"   D.h.w. temperature sensor   O	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching	heating circuit  w heating"  w temperature sensor  0 (02)  asse of d.h.w. heating  0 (03)  asse of circulating pump  1 (02)  1 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  asse of circulating pump  1 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program  w. switching differential  5 K (120) K onella function  6   1 = Monday	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  A (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  A Legionella function  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  O (02)  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sen	ture heating circuit	ture heating circuit  ( / 8variable*)  Ck "D.h.w heating"  D.h.w. temperature sensor  O(02)  O(02)  O(02)  O(02)  O(02)  O(02)  O(03)  O(	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck "D.h.w heating"
unction	= no legionella function	Description   Cock "D.h.w heating"   Description   Descr	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching	heating circuit ( / 8variable*) —— occ = no limitation  w heating"  w. temperature sensor 0 (02)	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  By D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  Part (o2)  Release of circulating pump  O (02)  O (03)  O (03	ture heating circuit  ( / 8variable*)    C	ture heating circuit ( / 8variable*) — °C = no limitation    Cock "D.h.w heating"   0	Min. limitation of flow temperature heating circuit   °C ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation	ture heating circuit  ( / 8variable*)    Columbda
	1	Dock "D.h.w heating"   Dock "Dock "D.h.w heating"   Dock "D.h.w heating"   Dock "Dock "D.h.w heating"   Dock "D.h.w heating"   Dock "Dock "D.h.w heating"   Dock "D.h.w heating"   Dock "Dock "D.h.w heating"   Dock "D.h.w heating"   Dock "D.h.w heating"   Dock "D.h.w heating"   Dock "Dock "D.h.w heating"   Dock "D.h	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching	heating circuit ( / 8variable*) — °C = no limitation  w heating w. temperature sensor 0 (02) — 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  o = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  ease of circulating pump 1 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program w. switching differential 5 K (120) — K  onella function 6 1 = Monday 2 = Tuesday etc. 1-7 = entire week	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C	ture heating circuit  ( / 8variable*)  "C = no limitation  "D = automatically, without solar d.h.w. heating  "Le one sensor with solar d.h.w. heating  "D = no limitation  "D	ture heating circuit	Min. limitation of flow temperature heating circuit	ture heating circuit  ( / 8variable*)  "C   = no limitation    Ck "D.h.w heating"   0
	°C	Dock "D.h.w heating"   D.h.w. temperature sensor   Dock "D.h.w heating"   D.h.w. temperature sensor   Dock "D.h.w heating"   D.h.w. temperature sensor   Dock "D.h.w heating   D.h.w. temperature sensor   Dock "D.h.w heating   Dock "D.h.w heating program   Dock "D.h	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching  Legionella function	heating circuit  w heating"  w temperature sensor  0 (02)  ease of d.h.w. heating  0 (03)  asse of circulating pump  1 (02)  1 = according to the heating program with forward shift (operating line 109)  asse of circulating pump  w switching differential  one la function  1 = Monday  ( / 17, 1-7)  asse of circulating pump  one la function  one automatically, without solar d.h.w. heating program d.h.	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  B. D.h.w. temperature sensor  O (02)  O = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)  D.h.w. switching differential  D.h.w. switching differential  Example 1	ture heating circuit    Cok "D.h.w heating"	ture heating circuit  ( / 8variable*)    C   = no limitation	Min. limitation of flow temperature heating circuit   °C ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation	ture heating circuit    Cock "D.h.w heating"
Flow temp, setpoint		Cock "D.h.w heating"   0	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching  Legionella function	heating circuit ( / 8variable*)	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  1 (02)  Release	ture heating circuit  ( / 8variable*)  Dh.w. temperature sensor  O(02)  Dh.w. temperature sensor  O(02)  Release of d.h.w. heating  O(03)  Release of circulating pump  Release of circulating pump  Release of circulating pump  Dh.w. switching differential  Dh.w. switching differential  Dh.w. switching differential  Sequence of circulating pump  Legionella function  Cw "D.h.w heating"  O (02)  O = automatically, without solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  1 = one sensor with solar d.h.w heating  1 = one sensor with solar d.h.w. heating  1 = according to the d.h.w. program  2 = according to the heating program with forward shift (operating line 109)  Dh.w. switching differential  Sequence of circulating pump  1 = according to the d.h.w. program  2 = permanently (24 h/day)  1 = according to the d.h.w. program  2 = according to the d.h.w. program  2 = according to the d.h.w. program  2 = according to the heating program  The permanently (24 h/day)  1 = according to the heating program  The permanently (24 h/day)  1 = according to the heating program  The permanently (24 h/day)  1 = according to the d.h.w. program  2 = according to the heating program  The permanently (24 h/day)  1 = according to the d.h.w. program  2 = according to the d.h.w. program  3 D.h.w. switching differential  The permanently (24 h/day)  1 = according to the d.h.w. program  2 = according to the d.h.w. program  2 = according to the d.h.w. program  2 = according to the d.h.w. program  3 = according to the d.h.w. program  4 = according to the d.h.w. program  5 = according to the d.h.w. program  1 = according to the d.h.w. program  2 = according to the d.h.w. program  3 = according to the d.h.w. program  4 = according to the d.h.w. program  5 = according to the d.h.w. program  6	ture heating circuit  ( / 8variable*)    C   = no limitation	Min. limitation of flow temperature heating circuit	ture heating circuit    Cock "D.h.w heating"   Cock "D.h.w. temperature sensor   Cock "D.h.w. heating   Cock
according to:		Cock "D.h.w heating"   0	ture heating circulock "D.h.w heating"  D.h.w. temperal  Release of d.h.  Release of circulocal  D.h.w. switching  Legionella functions  Setpoint legione	heating circuit	Min. limitation of flow temperature heating circuit	ture heating circuit  ( / 8variable*)  Ck "D.h.w heating"  D.h.w. temperature sensor  O(02)  Release of d.h.w. heating  O(03)  Release of circulating pump  Release of circulating pump  D.h.w. switching differential  D.h.w. switching differential  D.h.w. switching differential  Ck "D.h.w heating"  O(02)  O = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heat	ture heating circuit    Cack "D.h.w heating"   Cack "D.h.w heating"	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck "D.h.w heating"   0
d.h.w.	0 = absolute priority d b w	Description	ture heating circulock "D.h.w heating"  D.h.w. temperal  Release of d.h.  Release of circulocal  D.h.w. switching  Legionella functions  Setpoint legione	heating circuit  ( / 8variable*)  w heating"  w. temperature sensor  (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  ease of d.h.w. heating  0 0 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program  w. switching differential  5 K (120)  w. switching differential  5 K (120)  The Monday 2 = Tuesday etc. 1-7 = entire week = no limitation  0	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( /	ture heating circuit  ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  Release of circulating pump  Release of circulating pump  D.h.w. switching differential  D.h.w. switching differential  D.h.w. switching differential  Setpoint legionella function  C (02)  C (02)  D.h.w. priority  C = no limitation  O = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = according to the d.h.w. program 3 = according to the heating program 2 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program 3 = according to the d.h.w. program 2 = according to the heating program 3 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program 3 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the d.h.w. program 3 = according to the d.h.w. program 2 = according to the d.h.w. program 3 = according to the d.h.w. program 4 = according to the d.h.w. program 4 = according to the d.h.w. program 4 = according to the d.h.w.	ture heating circuit  ( / 8variable*)  ( / 8variable*)  ( / 8variable*)  ( = no limitation  ( + n + no limitation  (-	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( / 8variable*)  °C = no limitation  °C	ture heating circuit  ( / 8variable*)  Ck "D.h.w heating"  D.h.w. temperature sensor  (02)  Release of d.h.w. heating  (03)  Release of circulating pump  Release of circulating pump  Release of circulating pump  D.h.w. switching differential  Legionella function  Legionella function  Turn turn heating ( / 8variable*)  (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant ty
d.h.w.		Cock "D.h.w heating"   O	ture heating circulock "D.h.w heating"  D.h.w. temperal  Release of d.h.  Release of circulocal  D.h.w. switching  Legionella functions  Setpoint legione	heating circuit  ( / 8variable*)  w temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  w. switching differential  5 K (120)  w. switching differential  6 ( / 17, 1-7)  6   1 = Monday 2 = Tuesday etc. 1-7 = entire week = no limitation  65 °C (6095)  w. priority  4 (04)  D.h.w. priority   Flow temp. setpoin according to: 0 = absolute priority   d.h.w.	Min. limitation of flow temperature heating circuit   °C   8variable*   °C   = no limitation	ture heating circuit  ( / 8variable*)  D.h.w heating"  D.h.w. temperature sensor  O(02)  Release of d.h.w. heating  O(03)  Release of circulating pump  Release of circulating pump  D.h.w. switching differential  D.h.w. switching differential  Legionella function  C(02)  O = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.	ture heating circuit  ( / 8variable*)  "C = no limitation  "S =	Min. limitation of flow temperature heating circuit	ture heating circuit    Columbia   Columbia
	1 = shifting priority d.h.w.	Cock "D.h.w heating"   O	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching  Legionella function  Setpoint legione  D.h.w. priority	heating circuit    C   = no limitation	Min. limitation of flow temperature heating circuit   °C ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation	ture heating circuit  ( / 8variable*)	ture heating circuit ( / 8variable*)    Cock "D.h.w heating"   0	Min. limitation of flow temperature heating circuit    Max. value on operating line 95	ture heating circuit    Columbia   Columbia
	1 =shifting priorityd.h.w.2 =shifting prioritymax. selection	Description	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching  Legionella function  Setpoint legione  D.h.w. priority	heating circuit	Min. limitation of flow temperature heating circuit	ture heating circuit  ( / 8variable*)	ture heating circuit ( / 8variable*)    Cock "D.h.w heating"   0	Min. limitation of flow temperature heating circuit   °C ( / 8variable*)   °C   = no limitation	ture heating circuit    Columbia   Columbia
	1 = shifting priorityd.h.w.2 = shifting prioritymax. selection3 = none (parallel)d.h.w.	D.h.w. temperature sensor   O	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching  Legionella function  Setpoint legione  D.h.w. priority	heating circuit ( / 8variable*)	Min. limitation of flow temperature heating circuit	ture heating circuit  ck "D.h.w heating"  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  Release of circulating pump  D.h.w. switching differential  D.h.w. switching differential  D.h.w. switching differential  D.h.w. switching differential  Co (02)  Co (02)  Co (02)  D.h.w. switching differential  D.h.w. switching differential  Co (02)  Co (02)  Co (03)  D.h.w. switching differential  D.h.w. switching differential  D.h.w. switching differential  D.h.w. switching differential  Co (02)  D.h.w. priority  Co (02)  Co (02)  D.h.w. priority  D.h.w.	ture heating circuit    Cock *D.h.w heating*	Min. limitation of flow temperature heating circuit   °C (/8variable*)   °C   = no limitation	ture heating circuit    Columbia   Columbia
over valve Y/	1 = shifting priorityd.h.w.2 = shifting prioritymax. selection3 = none (parallel)d.h.w.4 = none (parallel)max. selection	D.h.w. temperature sensor   O	ture heating circles (Iock "D.h.w heating")  101 Release of d.h.  102 Release of circles (103 D.h.w. switching)  104 Legionella functions  105 Setpoint legions  106 D.h.w. priority	heating circuit ( / 8variable*)	Min. limitation of flow temperature heating circuit	ture heating circuit ( / 8variable*)	ture heating circuit    Cock **D.h.w heating**	Min. limitation of flow temperature heating circuit	ture heating circuit    Columbia   Columbia
1/D .	1 = shifting priority     d.h.w.       2 = shifting priority     max. selection       3 = none (parallel)     d.h.w.       4 = none (parallel)     max. selection       Plant type 3: changeover valve Y7	D.h.w. temperature sensor   O	ture heating circles  lock "D.h.w heating"  D.h.w. temperar  D.h.w. temperar  Release of d.h.  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  Overrun time ch	heating circuit	Min. limitation of flow temperature heating circuit    Max. value on operating line 95	ture heating circuit (/8variable*)	ture heating circuit (/ 8variable*)    C	Min. limitation of flow temperature heating circuit	ture heating circuit (/ 8variable*)
	1 = shifting priorityd.h.w.2 = shifting prioritymax. selection3 = none (parallel)d.h.w.4 = none (parallel)max. selection	D.h.w. temperature sensor   O	ture heating circles  lock "D.h.w heating"  D.h.w. temperar  Release of d.h.  Release of circle  D.h.w. switching  D.h.w. switching  D.h.w. priority  Coverrun time ch	heating circuit	Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation   Min. limit	ture heating circuit (—/ 8variable*) —°C — = no limitation  ck "D.h.w heating"  D.h.w. temperature sensor  O (02)	ture heating circuit    Care   Care   Care   Care   Care   Care	Min. limitation of flow temperature heating circuit	ture heating circuit    CK **D.h.w heating**
	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection  Plant type 3: changeover valve Y7	D.h.w. temperature sensor   O	ture heating circles (Iock "D.h.w heating")  D.h.w. temperary  Release of d.h.v.  Release of circles (Ioca)  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  Overrun time chemical	heating circuit  w heating"  w. temperature sensor  0 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. program 2 = according to the d.h.w. program 3 = according to the heating program with forward shift (operating line 109)  1	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck *D.h.w heating*	ture heating circuit ( / 8variable*)°C = no limitation    Columbda	Min. limitation of flow temperature heating circuit	ture heating circuit ( / 8variable*)
	1 = shifting priority     d.h.w.       2 = shifting priority     max. selection       3 = none (parallel)     d.h.w.       4 = none (parallel)     max. selection       Plant type 3: changeover valve Y7	D.h.w. temperature sensor   O	ture heating circles (Iock "D.h.w heating")  D.h.w. temperary  Release of d.h.v.  Release of circles (Ioca)  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  Overrun time chemical (Ioca)  Overrun time chemical (Ioca)  Overrun time chemical (Ioca)  Overrun time chemical (Ioca)  Ioca (Ioca)  Overrun time chemical (Ioca)  Ioca (Ioca)  I	heating circuit  w. heating** w. temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w heating 1 = one sensor with solar d.h.w. heating 1 = one sensor with out.w. heating 2 = two sensor with	Min. limitation of flow temperature heating circuit	ture heating circuit    Cock *O.h.w heating*   Cock *O.h.w heating*	ture heating circuit	Min. limitation of flow temperature heating circuit    Composition   Com	ture heating circuit ( / 8variable*)  ck "D.h.w heating"  D.h.w. temperature sensor  (02)  Release of d.h.w. heating  (03)  Release of circulating pump  Release of circulating pump  D.h.w. switching differential  Legionella function  Setpoint legionella function  D.h.w. priority  A (04)  D.h.w. priority  A min (040)  O a untomatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. program 2 = according to the d.h.w. program 3 = according to the heating program with forward shift (operating line 109)  To a permanently (24 h/day)  To a permanentl
ated	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection  Plant type 3: changeover valve Y7	D.h.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of d.h.v  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  Overrun time ch  M3  Overrun time ch  (M7 in the seco  circuit, after M3	heating circuit (/ 8variable*)	Min. limitation of flow temperature heating circuit    Carlor   Carlor   Carlor   Carlor	ture heating circuit ( / 8variable*)	ture heating circuit    Cock *D.h.w heating*   Cock *D.h.w heating*	Min. limitation of flow temperature heating circuit    Composition   Com	ture heating circuit    Columbia   Columbia
ated	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection Plant type 3: changeover valve Y7	D.h.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of d.h.v  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  Overrun time ch  M3  Overrun time ch  (M7 in the seco  circuit, after M3	heating circuit (/ 8variable*)	Min. limitation of flow temperature heating circuit    Carlor   Carlor   Carlor   Carlor	ture heating circuit ( / 8variable*)	ture heating circuit    Cock *D.h.w heating*   Cock *D.h.w heating*	Min. limitation of flow temperature heating circuit    Composition   Com	ture heating circuit    Columbia   Columbia
PBoltSIEM ated	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection Plant type 3: changeover valve Y7  min  = function deactivated	D.h.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of d.h.v  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  Overrun time ch M3  Overrun time ch (M7 in the seco circuit, after M3  Max. time d.h.w	heating circuit  w. heating"  w. temperature sensor  0 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating a = coording to the A.w. program 2 = according to the A.w. program 2 = according to the heating program with forward shift (operating line 109)  1	Min. limitation of flow temperature heating circuit	ture heating circuit (—/ 8variable*)	ture heating circuit    Carlo   Carlo	Min. limitation of flow temperature heating circuit    C	ture heating circuit    Ck "D.h.w heating"   Ck "D.h.w heating"
ated	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection Plant type 3: changeover valve Y7  min  = function deactivated	Cock "D.h.w heating"   D.h.w. temperature sensor   O (02)   D.h.w. temperature sensor   O (02)   1 = one sensor with solar d.h.w. heating   2 = two sensors with solar d.h.w. heating   Plant types without solar d.h.w. heating   Plant types with solar d.h.w. heating   Plant type with sol	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  D.h.w. priority  Overrun time che M3  Overrun time che (M7 in the seconocircuit, after M3  Max. time d.h.w.  Lock "D.h.w. actuator  Olock "D.h.w. actuator	heating circuit    W. heating"	Min. limitation of flow temperature heating circuit	ture heating circuit (—/ 8variable*) Chr	ture heating circuit    Cock "D.h.w heating"   Cock "D.h.w heating program with forward shift (operating line 109)   Cock "D.h.w heating program with forward shift (operating line 109)   Cock "D.h.w heating program   Cock "D.h.w heating   C	Min. limitation of flow temperature heating circuit    C	ture heating circuit  ck "D.h.w heating"  3 D.h.w. temperature sensor  0 (02)  1 ene sensor with solar d.h.w. heating 2 two sensors with solar d.h.w. heating 1 ene sensor with solar d.h.w. heating 2 two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types are no legionella function  1 Release of d.h.w. heating Plant types without solar d.h.w. heating Plant types are not legionella function for the heating program with forward shift (operating line 109)  2 Release of circulating pump (More the heating program with forward shift (operating line 109)  3 D.h.w. switching differential for the heating program are according to the d.h.w. program 2 = according to the d.h.w. progr
ated	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection Plant type 3: changeover valve Y7  min  = function deactivated	D.h.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Doverrun time chean chean priority  Doverrun time chean priority  Doverrun time chean priority  D.h.w. priority  Doverrun time chean prior	heating circuit  w heating"  w. temperature sensor  0 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  0 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  w. switching differential  5 K (120)  w. switching differential  5 K (120)  conella function  6 ( / 17, 1-7)  2 = Tuesday etc. 1-7 = entire week = no legionella function  65 °C (6095)  conella function  65 °C (6095)  conella function  4 (04)  D.h.w. priority  Flow temp. setpoin according to: 0 = absolute priority   d.h.w.   2 = shifting priority   d.h.w.   2 = shifting priority   d.h.w.   2 = shifting priority   d.h.w.   3 = none (parallel)   d.h.w.   4 = none (parallel)   max. selection   7 = none (parallel)   max. selection   8 = none (parallel)   max. selection   9 = none (parallel)   max. selection	Min. limitation of flow temperature heating circuit  Min. was a constraint of flow temperature heating circuit  Min. was a coording to the heating of the he	ture heating circuit (—/ 8variable*) °C — = no limitation    D.h.w. temperature sensor	ture heating circuit (/8variable*)    C	Max. value on operating line 95	ture heating circuit  ck "D.h.w heating"  3 D.h.w. temperature sensor  0 (02)  1 Release of d.h.w. heating  1 Release of circulating pump  2 Release of circulating pump  2 Release of circulating pump  3 D.h.w. switching differential  4 Legionella function  5 Setpoint legionella function  6 (04)  5 Setpoint legionella function  6 D.h.w. priority  4 (04)  6 D.h.w. priority  7 Overrun time charging pump  Max. time d.h.w. heating  1 0 = automatically, without solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  3 = coording to the d.h.w. program  3 = according to the d.h.w. program  4 = according to the heating program  5 K (120)  4   Legionella function  65 °C (6095)  6   D.h.w. priority   Flow temp. setpoint according to:  1 = shifting priority   d.h.w.  2 = shifting priority   d.h.w.  2 = shifting priority   d.h.w.  3 = none (parallel)   max. selection  4 = none (parallel)   max. selection  Plant type 3: changeover valve Y7  1   Opening time actuator 1"  1   Opening time actuator Y5   35 s
PBoltSIEM ated	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection  Plant type 3: changeover valve Y7 min  = function deactivated	D.h.w. temperature sensor	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Doverrun time check (M7 in the secondicult, after M3 priority, after M3 priorit	heating circuit (/ 8variable*)	Min. limitation of flow temperature heating circuit	ture heating circuit	ture heating circuit   ( / 8variable*)  *C   = no limitation  *   bck "D.h.w heating"   0	Max. value on operating line 95	ture heating circuit
PBoltSIEM ated	1 = shifting priority d.h.w. 2 = shifting priority max. selection 3 = none (parallel) d.h.w. 4 = none (parallel) max. selection  Plant type 3: changeover valve Y7 min  = function deactivated	Dock "D.h.w heating"   D.h.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit and the second circuit after M3	heating circuit (/ 8variable*)  "C = no limitation  "W heating"  W. temperature sensor  (02)  (02)  (02)  (02)  (02)  (02)  (02)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (03)  (04)  (02)  (120)  (120)  (120)  (22)  (32)  (420)  (62)  (62)  (63)  (63)  (725)  (83)  (94)	Min. limitation of flow temperature heating circuit	Ture heating circuit   ( / 8variable*)   "C   = no limitation   Ck *D.h.w heating*	ture heating circuit	6 Min. limitation of flow temperature heating circuit         °C (/8variable*)         °C	ture heating circuit
ated	1 = shifting priority	D.h.w. temperature sensor	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit, after M3  Doverrun time chells and the second circuit and the second circuit after M3	Neating circuit   (/ 8variable*)   °C   = no limitation	Min. limitation of flow temperature heating circuit	Ture heating circuit	ture heating circuit	Max. value on operating line 95	Ture heating circuit
ated	1 = shifting priority	Cock "D.h.w heating"	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Down time chemical of the second circuit, after M3  Down time d.h.w. circuit  Dopening time and d.h.w. circuit  Closing time and d.h.w. circuit  P-band d.h.w. circuit	Neating circuit   (/ 8variable*)   °C   = no limitation	Min. limitation of flow temperature heating circuit	ture heating circuit	ture heating circuit   (/ 8variable*)   "C   = no limitation	Max. value on operating line 95	ture heating circuit
ated	1 = shifting priority	D.h.w. temperature sensor	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Down time chemical ch	Neating circuit   (/ 8variable*)   C   = no limitation	Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation   Min. limit	Ture heating circuit	ture heating circuit   (/ 8variable*)   "C   = no limitation	Max. value on operating line 95	ture heating circuit
ated	1 = shifting priority	D.h.w. temperature sensor	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of circu  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Coverrun time chemical of the second of the se	Neating circuit   (/ 8variable*)   °C   = no limitation	Min. limitation of flow temperature   ( / 8variable*)   "C "Max. value on operating line 95   = no limitation	Ture heating circuit   ( / 8 variable*)   "C   = no limitation   Ck "D.h.w heating"   D.h.w. temperature sensor   0   0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0   0 = permanently (24 h/dw)   1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)   1 = according to the heating program with forward shift (operating line 109)   1 = according to the heating program with forward shift (operating line 109)   1 = according to the heating program with forward shift (operating line 109)   1 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program   2 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program   2 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program   2 = according to the heating program   3 = none (parallel tunction   6	ture heating circuit	6 Min. Imitiation of flow temperature heating circuit ture heating circuit  both **To.h.w heating**  8 D.h.w. temperature sensor  10 (02)  11 Release of d.h.w. heating  12 exive sensor with solar d.h.w. heating 12 exive sensor with solar d.h.w. heating 13 excording to the heating program 14 excording to the heating program 15 excording to the heating program 16 excording to the heating program 17 (02)  18 Release of circulating pump 1	ture heating circuit
ated	1 = shifting priority   d.h.w. 2 = shifting priority   max. selection 3 = none (parallel)   d.h.w. 4 = none (parallel)   max. selection Plant type 3: changeover valve Y7  min  = function deactivated  = function deactivated	D.h.w. temperature sensor   0	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of d.h.  Release of circul  D.h.w. switching  D.h.w. switching  D.h.w. priority  Degionella funct  D.h.w. priority  Overrun time che M3  Overrun time che (M7 in the seconocircuit, after M3  Max. time d.h.w.  Lock "D.h.w. actuator  Lock "D.h	Neating circuit   (/ 8variable*)   °C   = no limitation	Min. limitation of flow temperature   ( / 8variable*)   "C "Max. value on operating line 95   ( / 8variable*)   "C " = no limitation   ( / 8variable*)   ( / 8variable*)   "C " = no limitation   ( / 8variable*)   ( /	ture heating circuit	ture heating circuit	Max. value on operating line 95	ture heating circuit
ated	1 = shifting priority	Dh.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of d.h.v  Release of circu  D.h.w. switching  D.h.w. switching  D.h.w. priority  Degionella funct  Degionella funct  Degionella funct  Degionella funct  Degionella funct  D.h.w. priority  Degionella funct  Degionella fu	Neating circuit   ( / 8variable*)   °C   = no limitation	Min. limitation of flow temperature   ( / 8variable*)   *C	ture heating circuit	ture heating circuit	Max. value on operating line 95	ture heating circuit
ated	1 = shifting priority	Dh.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of d.h.v  D.h.w. switching  D.h.w. switching  D.h.w. priority  Degionella funct  Degionella f	Neating circuit   ( / 8variable*)   °C   = no limitation	Min. limitation of flow temperature	ture heating circuit	ture heating circuit	6 Min. limitation of flow temperature heating circuit ture heating circuit  6 (-/ 8variable*)  6 (-/ 8variable*)  7 (-/ 8variable*)  7 (-/ 8variable*)  8 (-/ 8variable*)  8 (-/ 8variable*)  8 (-/ 8variable*)  8 (-/ 8variable*)  9 (-/ 9variable*)  9 (-/ 9v	ture heating circuit
ated	1 = shifting priority         d.h.w.           2 = shifting priority         max. selection           3 = none (parallel)         d.h.w.           4 = none (parallel)         max. selection           Plant type 3: changeover valve Y7          min         = function deactivated          s        s          s        s          s        s	Set   Cock **D.h.w. heating*   Cock **D.h.w. actuator 1**   Cock *	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  Release of d.h.  Release of circul  D.h.w. switching  D.h.w. switching  D.h.w. priority  Degionella funct  Degionella f	Neating circuit   ( / 8variable*)   °C   = no limitation	Min. limitation of flow temperature heating circuit   ( / 8 variable*)   "C no limitation   ( n	ture heating circuit	ture heating circuit	6 Min. limitation of flow temperature heating circuit    C	ture heating circuit
ated	1 = shifting priority         d.h.w.           2 = shifting priority         max. selection           3 = none (parallel)         d.h.w.           4 = none (parallel)         max. selection           Plant type 3: changeover valve Y7          min         = function deactivated          s        s          s        s          s        s	D.h.w. temperature sensor	ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  Degionella funct  D.h.w. priority  Dowerrun time ch (M7 in the seco circuit, after M3  Dening time ac d.h.w. circuit  Closing time ac d.h.w. circuit  Closing time ac d.h.w. circuit  Derivative action control  Derivative action control  Setpoint boost heating  Max. d.h.w. tem	Leading circuit   Leading   Leadin	Min. limitation of flow temperature   (/ 8variable*)   C       C         C       C         C       C       C         C	Ture heating circuit   (/ 8variable*)   °C   = no limitation	ture heating circuit	6 Min. limitation of flow temperature heating circuit  10	ture heating circuit
	1 = shifting priority         d.h.w.           2 = shifting priority         max. selection           3 = none (parallel)         d.h.w.           4 = none (parallel)         max. selection           Plant type 3: changeover valve Y7           min         = function deactivated          s		ture heating circ  lock "D.h.w heating"  D.h.w. tempera  D.h.w. tempera  D.h.w. tempera  D.h.w. switching  D.h.w. switching  D.h.w. switching  D.h.w. priority  D.h.w. priority  D.h.w. priority  D.h.w. priority  D.h.w. priority  Degring time and d.h.w. circuit  Reduced d.h.w. circuit  Reduced d.h.w. tem setpoint  Reduced d.h.w.	March   Marc	Max. value on operating line 95	Lure heating circuit   (/ 8variable*)   °C   = no limitation	ture heating circuit	Max. value on operating line 95	ture heating circuit
over valve Y7	1 = shifting priorityd.h.w.2 = shifting prioritymax. sele3 = none (parallel)d.h.w.	Cock "D.h.w heating"   O	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching  Legionella function  Setpoint legione  D.h.w. priority	heating circuit  ( / 8variable*)  w temperature sensor  0 (02)  1 = one sensor with solar d.h.w. he 2 = two sensors with solar d.h.w. hea setting = 0  (03)  0 = permanently (24 h/day)  1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program 4 = according to the heating program 5 = according to the heating program 6 = according to the heating program 8 = according to the heating program 9 = according to the heating program 1 = according to the heating program 2 = according to the heating program 3 = according to the d.h.w. program 2 = according to the heating program 4 = according to the heating program 5 = according to the heating program 6 = according to the heating program 1 = according to the heating program 1 = according to the heating program 2 = according to the heating program 1 = according to the heating program 2 = according to the heating program 2 = according to the heating program 1 = according to the heating program 2 = according to the heating program 2 = according to the heating program 2 = according to the heating program 3 = according to the heating program 2 = according to the heating program 3 = according to the heating program 4	Min. limitation of flow temperature heating circuit  °C (/8variable*)   °C   * Max. value on operating line 95   = no limitation	ture heating circuit  (/ 8variable*)  D.h.w heating*  D.h.w. temperature sensor  O(02)  D.h.w. temperature sensor  O(02)  Release of d.h.w. heating  O(03)  Release of circulating pump  CRelease of circulating pump  Description of the heating program of the hea	ture heating circuit    Carlor   Carlor	Min. limitation of flow temperature heating circuit    Max. value on operating line 95	ture heating circuit    Color
		Ck "D.h.w heating"  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  Release of circulating pump  D.h.w. switching differential  D.h.w. switching differential  D.h.w. temperature sensor  O (02)  O = automatically, without solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = according to the d.h.w. program  2 = according to the heating program  2 = according to the d.h.w. program  2 = according to the d.h.w. program  2 = according to the heating program  3 D.h.w. switching differential  5 K  (120)  K  Legionella function  6   1 = Monday  2 = Tuesday etc.	ture heating circles the true heating circles to the true heating circles the true heating. The true heating to the true heating.  D.h.w. temperature the true heating the true heating. The true heating the heating the true heating the true heating the true heating the	heating circuit ( / 8variable*) —— occ = no limitation  w heating"  w. temperature sensor 0 (02)	Min. limitation of flow temperature heating circuit    Min. limitation of flow temperature heating circuit   °C ( / 8variable*)   °C   = no limitation	ture heating circuit	ture heating circuit	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( / 8variable*)  °C ( / 8variable*)  * Max. value on operating line 95 = no limitation    * Max. value on operating line 195 = no limitation    * Max. value on operating line 195 = no limitation    * Max. value on operating line 195 = no limitation    * Max. value on operating line 195 = no limitation    * Max. value on operation limitation limitation    * Max. value on operation limitation limitation limitation	ture heating circuit
unction	= no legionella function	ock "D.h.w heating"    D.h.w. temperature sensor	ture heating circ ock "D.h.w heating" 08 D.h.w. temperar 01 Release of d.h.v 02 Release of circu	heating circuit  w heating"  w temperature sensor  0 (02)  asse of d.h.w. heating  0 (03)  asse of circulating pump  1 (02)  1 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  asse of circulating pump  1 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program  w. switching differential  5 K (120) K onella function  6   1 = Monday	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  A (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  A Legionella function  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  O (02)  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sen	ture heating circuit	ture heating circuit  ( / 8variable*)  D.h.w heating  D.h.w temperature sensor  O(02)  D.h.w temperature sensor  O(02)  D.h.w sensors with solar d.h.w heating  2 = two sensors with solar d.h.w heating  Plant types without solar d.h.w heating  Plant types without solar d.h.w heating  Plant types without solar d.h.w heating  O(03)  D.h.w heating  O(03)  D.h.w program  2 = according to the d.h.w program  3 = according to the heating program with forward shift (operating line 109)  D.h.w switching differential	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck "D.h.w heating"
unction		Description	ture heating circle to the fock "D.h.w heating"  D.h.w. temperar  Release of d.h.  Release of circle  Release of circle  D.h.w. switching	heating circuit  w heating"  w temperature sensor  0 (02)  asse of d.h.w. heating  0 (03)  asse of circulating pump  1 (02)  1 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  asse of circulating pump  1 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program  w. switching differential  5 K (120) K onella function  6   1 = Monday	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  A (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  A Legionella function  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  O (02)  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sen	ture heating circuit	ture heating circuit  ( / 8variable*)  D.h.w heating*  D.h.w temperature sensor  O(02)  O(02)  O(02)  O(02)  O(03)  O(0	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck "D.h.w heating"
unction		D.h.w. temperature sensor   O	ture heating circles ture heating circles to the following of the following turns the	heating circuit  w heating"  w temperature sensor  0 (02)  asse of d.h.w. heating  0 (03)  asse of circulating pump  1 (02)  1 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  asse of circulating pump  1 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the d.h.w. program 2 = according to the heating program  w. switching differential  5 K (120) K onella function  6   1 = Monday	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  A (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  Release of circulating pump  O (02)  A Legionella function  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  O (02)  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sensors with solar d.h.w. heating  1 = one sensor with solar d.h.w. heating  2 = two sen	ture heating circuit	ture heating circuit  ( / 8variable*)  D.h.w heating*  D.h.w temperature sensor  O(02)  O(02)  O(02)  O(02)  O(03)  O(0	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck "D.h.w heating"
unction	1-7 = entire week	Dock "D.h.w heating"   Ock "D.h.w temperature sensor   Ock "D.h.w. temperature sensor   Ock "D.h.	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching	heating circuit  w heating"  w. temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  case of d.h.w. heating  0 (03)  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)  case of circulating pump  1 (02)  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 4 = according to the heating program 5 K (120)  K	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  Release of circulating pump  O Release of circulating pump  O Release of circulating pump  O D.h.w. switching differential  O D.h.w. switching differential  O C ( / 8variable*)  O E Amax. value on operating line 95  *Max. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operations  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operations  **C = no limitation  **Max. value on operations  **Amax. value on operations  ***Amax. value on operations  ***	ture heating circuit	ture heating circuit	Min. limitation of flow temperature heating circuit	ture heating circuit
unction	1-7 = entire week	Dock "D.h.w heating"   Ock "D.h.w temperature sensor   Ock "D.h.w. temperature sensor   Ock "D.h.	ture heating circulock "D.h.w heating"  D.h.w. temperation  Release of d.h.  Release of circulocal D.h.w. switching	heating circuit  w heating"  w. temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  case of d.h.w. heating  0 (03)  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)  case of circulating pump  1 (02)  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 4 = according to the heating program 5 K (120)  K	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O (02)  Release of d.h.w. heating  O (03)  Release of circulating pump  Release of circulating pump  O Release of circulating pump  O Release of circulating pump  O D.h.w. switching differential  O D.h.w. switching differential  O C ( / 8variable*)  O E Amax. value on operating line 95  *Max. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operations  **Amax. value on operating line 95  **C = no limitation  **Amax. value on operations  **C = no limitation  **Amax. value on operations  ***	ture heating circuit	ture heating circuit	Min. limitation of flow temperature heating circuit	ture heating circuit
unction	2 = Tuesday etc. 1-7 = entire week	Dock "D.h.w heating"   O	ture heating circulock "D.h.w heating"  D.h.w. temperar  Release of d.h.  Release of circulocal	heating circuit  .w heating"  w. temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  ease of d.h.w. heating  0	Min. limitation of flow temperature heating circuit   Shape of the heating circuit   Shape	ture heating circuit  ( / 8variable*)  Ck "D.h.w heating"  D.h.w. temperature sensor  (02)  1 e one sensor with solar d.h.w. heating 2 e two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  Release of d.h.w. heating  (03)  1 e according to the d.h.w. program 2 e according to the heating program with forward shift (operating line 109)  Release of circulating pump  1	ture heating circuit  ( / 8variable*)  "C = no limitation  "E =	Min. limitation of flow temperature heating circuit	ture heating circuit    Ck "D.h.w heating"
unction	2 = Tuesday etc. 1-7 = entire week	Description	ture heating circulock "D.h.w heating"  D.h.w. temperar  Release of d.h.  Release of circulocal	heating circuit  w heating"  w. temperature sensor  0 (02)  ease of d.h.w. heating  0 (03)  case of circulating pump  1 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1	Min. limitation of flow temperature heating circuit   °C   / 8variable*     * Max. value on operating line 95   = no limitation     °C   * Max. value on operating line 95   = no limitation     °C   * Max. value on operating line 95   = no limitation     °C   * Max. value on operating line 95   = no limitation     °C	ture heating circuit  ( / 8variable*)  "C = no limitation  "D.h.w. heating"  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  1 Release of d.h.w. heating  0	ture heating circuit  ( / 8variable*)  "C = no limitation  "E	Min. limitation of flow temperature heating circuit	ture heating circuit  ( / 8variable*)  "C = no limitation    Ck "D.h.w heating"
unction	1 = Monday 2 = Tuesday etc. 1-7 = entire week	D.h.w. temperature sensor   O	ture heating circ  lock "D.h.w heating"  D.h.w. tempera	heating circuit  w heating"  w. temperature sensor  0 (02)  ease of d.h.w. heating  0 (03)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1	Min. limitation of flow temperature heating circuit   °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = automatically, without solar d.h.w. heating     °C   ( / 8variable*)   0 = permanently (24 h/w. heating     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = automatically, without solar d.h.w. heating     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = automatically, without solar d.h.w. heating     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   * Max. value on operating line 95   = no limitation     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   = no limitation     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   ( / 8variable*)   0 = permanently (24 h/day)     °C   = no limitation     °C   = no limitati	ture heating circuit  ( / 8variable*)  0	ture heating circuit	Min. limitation of flow temperature heating circuit    Cock "D.h.w heating"   Cock "D.h.w heating"   Cock "D.h.w. temperature sensor   Cock "D.h.w. heating "1	ture heating circuit  ( / 8variable*)  ( = no limitation  (   8variable*)  (   9
unction	1 = Monday 2 = Tuesday etc. 1-7 = entire week	Cock "D.h.w heating"   0	ture heating circ  lock "D.h.w heating"  D.h.w. tempera	heating circuit  w heating"  w temperature sensor  0 (02)  ease of d.h.w. heating  0 (03)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1   0 = permanently (24 h/day)	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O(02)  Release of d.h.w. heating  O(03)  Release of circulating pump  O(03)  Release of circulating pump  Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  0	ture heating circuit  ( / 8variable*)  0	ture heating circuit	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( = no limitation  °C ( = no lim	ture heating circuit  ( / 8variable*)  ( = no limitation  ( / 8variable*)  ( = no limitation  (   8variable*)  (   8variable*)  ( = no limitation  (   8variable*)  (   9
	1 = Monday 2 = Tuesday etc. 1-7 = entire week	Cock "D.h.w heating"   0	ture heating circ  lock "D.h.w heating"  D.h.w. tempera	heating circuit  w heating"  w temperature sensor  0 (02)  ease of d.h.w. heating  0 (03)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)  ease of circulating pump  1   0 = permanently (24 h/day)	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  D.h.w. temperature sensor  O(02)  Release of d.h.w. heating  O(03)  Release of circulating pump  O(03)  Release of circulating pump  Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  * Max. value on operating line 95  = no limitation  0	ture heating circuit  ( / 8variable*)  0	ture heating circuit  ( / 8variable*)  "C = no limitation  "E =	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( = no limitation  °C ( = no lim	ture heating circuit  ( / 8variable*)  ( = no limitation  ( / 8variable*)  ( = no limitation  (   8variable*)  (   8variable*)  ( = no limitation  (   8variable*)  (   9
heating program	2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	Cock "D.h.w heating"   0	ture heating circ  lock "D.h.w heating"  D.h.w. tempera	heating circuit	Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation   Min. limit	ture heating circuit  ( / 8variable*)  ©C = no limitation  ©C #D.h.w heating#  D.h.w. temperature sensor  0	ture heating circuit  ( / 8variable*)  "C = no limitation  0   0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  11   Release of d.h.w. heating  0   0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( / 8variable*)  °C ( = no limitation  °C ( = no li	ture heating circuit  ( / 8variable*)  "C = no limitation  "C "D.h.w heating"  B D.h.w. temperature sensor  (02)  (02)  (02)  (02)  (02)  (02)  (03)  (03)  (03)  (03)  (03)  (04)  (03)  (04)  (03)  (03)  (04)  (03)  (04)  (03)  (04)  (03)  (03)  (04)  (03)  (03)  (03)  (04)  (03)  (0
heating program	2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	Cock "D.h.w heating"   0	ture heating circ  lock "D.h.w heating"  D.h.w. tempera	heating circuit	Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation of flow temperature heating circuit   Min. limitation   Min. limit	ture heating circuit  ( / 8variable*)  ©C = no limitation  ©C #D.h.w heating#  D.h.w. temperature sensor  0	ture heating circuit  ( / 8variable*)  "C = no limitation  0   0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  11   Release of d.h.w. heating  0   0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with forward shift (operating line 109)	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  °C ( / 8variable*)  °C ( = no limitation  °C ( = no li	ture heating circuit  ( / 8variable*)  0
d.h.w. program heating program	1 = according to the d.h.w. program 2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	D.h.w. temperature sensor   0	ture heating circ lock "D.h.w heating" 98 D.h.w. tempera	heating circuit  w heating"  w temperature sensor  0 (02)  1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  ease of d.h.w. heating  0 (03)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program 3 = according to the heating program with	Min. limitation of flow temperature heating circuit   Max. value on operating line 95	ture heating circuit  ( / 8variable*)  0	ture heating circuit  ( / 8variable*)  "C = no limitation  "D =	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *A substitution  * Max. value on operating line 95 = no limitation  * A substitution  *	ture heating circuit  ( / 8variable*)  0
h/day) d.h.w. program heating program	0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	D.h.w. temperature sensor   0	ture heating circ lock "D.h.w heating" 98 D.h.w. tempera	heating circuit  w heating"  w temperature sensor  0 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  ease of d.h.w. heating  0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program	Min. limitation of flow temperature heating circuit   C or C	ture heating circuit  ( / 8variable*)  0 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  1 Release of d.h.w. heating 0 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program	ture heating circuit  ( / 8variable*)  "C = no limitation  "D =	Min. limitation of flow temperature heating circuit    Carrow further heating circuit	ture heating circuit  ( / 8variable*)  0 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  1 Release of d.h.w. heating 0 0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program
h/day) d.h.w. program heating program	0 = permanently (24 h/day) 1 = according to the d.h.w. program 2 = according to the heating program  K  1 = Monday 2 = Tuesday etc. 1-7 = entire week	lock "D.h.w heating"  D.h.w. temperature sensor  O(02)  Description:  O(02)  O(03)	ture heating circ lock "D.h.w heating" 98 D.h.w. tempera	heating circuit  w heating"  w temperature sensor  0 (02)  0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating: setting = 0  ease of d.h.w. heating  0 = permanently (24 h/day) 1 = according to the d.h.w. program	Min. limitation of flow temperature heating circuit   Cock "D.h.w heating"	ture heating circuit  ( / 8variable*)  0 0 = automatically, without solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  1 Release of d.h.w. heating 0 0 = permanently (24 h/day) 1 = according to the d.h.w. program	ture heating circuit  ( / 8variable*)  "C = no limitation  "D =	Min. limitation of flow temperature heating circuit  °C ( / 8variable*)  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *Max. value on operating line 95 = no limitation  *A part of the sensor with solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating Plant types without solar d.h.w. heating setting = 0  *Max. value on operating line 95 = no limitation  *A part of the sensor with solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 1 = one sensor with solar d.h.w. heating 2 = two sensors with solar d.h.w. heating 1 = one sensor with solar d.h.w. heati	ture heating circuit  ( / 8variable*)  CC = no limitation  C = automatically, without solar d.h.w. heating  1 = one sensor with solar d.h.w heating  2 = two sensors with solar d.h.w heating  Plant types without solar d.h.w. heating:  Setting = 0  C = permanently (24 h/day)  C = automatically, without solar d.h.w. heating  C = two sensors with solar d.h.w. heating
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123 Integral action time d.h.w. 35 s (10...873) .....s

...S

.K

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35 s (10...873)

35 K (1...100)

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Block "D.h.w. actuator 2"

d.h.w. circuit
122 P-band d.h.w. control

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121 Actuator running time, mixing valve Y7 in the secondary

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Block	κ "D.h.w. load limit"			
124	Load limit when flow switch is	25 %		Setting in % of the current max. stroke
$-\Lambda$	activated	(060)	%	

#### Block "Additional legionella functions"

126	Time for charging		2110	
		(: / 00:0023:50)		EMENO
127	Dwelling time at legionella	min		TIVO BOHOLE
	setpoint	( / 10360)	min	- OISIEM
128	Circulating pump operation	1		0 = no
	during legionella function	(0 / 1)		1 = yes

#### Block "Multifunctional relays"

129	Function multifunctional relay K6	0 (03)	 0 = no function 1 = refill function 2 = electric immersion heater 3 = collector pump No prevention of wrong configurations!
130	Function multifunctional relay K7	0 (03)	0 = no function 1 = refill function 2 = electric immersion heater 3 = collector pump No prevention of wrong configurations!

#### Block "Test and display"

141	Sensor test	0		0 = outside sensor (B9)
	= open circuit or no	(09)		1 = flow sensor (B1)
	sensor	( 7		2 = d.h.w. sensor / storage tank sensor 1 (B3)
F	ooo = short-circuit			3 = room unit sensor (A6)
_	VIENCD			4 = primary return sensor (B7)
	000 = short-circuit			5 = universal sensor (B71)
		EIVIFNIO		6 = storage tank sensor 2 (B32)
			10/40	7 = collector sensor (B6)
			0112	8 = secondary pressure sensor (U1)
				9 = primary pressure sensor (U2)
142	Relay test	0		0 = normal operation (no test)
		(010)		1 = all relays de-energized
				2 = relay Y1 energized
				3 = relay Y2 energized
				4 = relay Q1 energized
				5 = relay Q3/Y7 energized
				6 = relay Y5 energized
				7 = relay Y6 energized
				8 = relay Q7/Y8 energized
				9 = relay K6 energized
				10 = relay K7 energized
				To terminate the relay test:
				Select another operating line
				Press an operating mode button
				Automatically after 8 minutes
				Note:
				With plant type 5, perform relay test only when
				main valve is closed!
				Recommendation:
				Always close main valve when making the
				relay test

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143	Display of active limitations	Display function	Maximum limitation [ : 1 = primary return temperature 2 = common flow temperature 3 = secondary flow temperature heating circuit 4 = temperature differential 5 = room temperature 6 = storage tank charging temperature 7 = storage tank maximum temperature 8 = evaporation temperature heat carrier 9 = collector overtemperature protection Minimum limitation ]: 11 = reduced room temperature setpoint 12 = common flow temperature heating 13 = secondary flow temperature heating
146	Status at terminal H5	Display function	13 = secondary flow temperature heating circuit  H5 0 = H5 contact open
149	Reset of operating lines 5696, 101128 and 201221		H5 1 = H5 contact closed  Press
150	Software version	Display function	_

#### Block "Modbus parameter"

171	Unit number			Modbus address
		( / 1247)		= no data bus connection
172	Parity	0		0 = even
	-	(02)		1 = odd
				2 = none
173	Baud rate	3		0 = 1200 Baud
		(04)		1 = 2400 Baud
E	AFRICA			2 = 4800 Baud
	VIENCD			3 = 9600 Baud
	DOLO			4 = 19200 Baud
174	Modbus version	Display function		

#### Block "Solar d.h.w."

201	Temperature differential ON	8 K		Temperature differential between collector and
	solar	(040)	K	storage tank
202	Temperature differential OFF	4 K		Temperature differential between collector and
	solar	(040)	K	storage tank
203	Collector frost protection	°C		= no collector frost protection
	·	( / –205)	°C	·
204	Collector overtemperature	105 °C		= no collector overtemperature protection
	protection	( / 30240)	°C	·
205	Evaporation temperature heat	140 °C		= no collector pump protection
	carrier	( / 60240)	°C	
206	D.h.w. charging temperature	80 °C		
	maximum limitation	(8100)	°C	
207	D.h.w. storage tank tempera-	90 °C		No safety function
	ture maximum limitation	(8100)	°C	
208	Collector start function	min/K		= function deactivated
	gradient	( / 120)	min/K	

#### Block Refill function

211	Relative secondary minimum	bar		= refill function inactive
	pressure	( / 0.510)	bar	
212	Refill locking time after shut	10 min		= function inactive
	down	( / 102400)	min	
213	Minimum secondary under-	10 s		= function inactive
	pressure period	( / 102400)	S	
214	Secondary switching differen-	0.3 bar		
	tial	(0.11.0)	bar	
215	Function primary pressure	0		0 = display function (see operating line 141)
	sensor U2	(0 / 1)		1 = monitoring
216	Maximum refill period per	S	OHO	= function inactive
	charge	( / 102400)	S	IEMENIO
217	Maximum refill period per	min		= function inactive
	week	( / 11440)	min	POISIEM

218	Secondary pressure sensor U1: Pressure at DC 10 V	10 bar (0100)	bar	Scaling for DC 10 V
219	Secondary pressure sensor U1: Pressure at DC 0 V	0 bar (–10…0)	bar	Scaling for DC 0 V
220	Primary pressure sensor U2: Pressure at DC 10 V	10 bar (0100)	bar	Scaling for DC 10 V
221	Primary pressure sensor U2: Pressure at DC 0 V	0 bar (–10…0)	bar	Scaling for DC 0 V
222	Reset of the counters "Refill period per charge" and "Refill period per week"			Press

#### Settings on the "Locking functions" level

To access the "Locking functions" level, proceed as follows:

- 2. The display shows Cod ooooo
- Enter the code (for information about the code, contact your Siemens Service centre)

The "End-user" and "Heating engineer's" levels remain activated.

#### Block "Locking functions"

226	Max. limitation of primary	°C		= no limitation	
	return temperature, constant	( / 0140)	°C	TRt 0nl 226	
	value			Opl. 226	
227	Max. limitation of primary	7		Opl. 227	
	return temperature, slope	(040) 10 °C		No Ope 227	
228	Max. limitation of primary			OpL 228	
	return temperature slope,	(-50+50)	°C	-TO	
	start of shifting limitation			OpL = operating line	
	VIENCE.			TO = outside temperature	
	- INDIROHOU			TRt = return temperature	
229	Max. setpoint of return tem-	°C		Only with plant types 2, 3, 7 and 8	
	perature with d.h.w. heating	( / 0140)	°C	= function deactivated	
230	Integral action time	15 min	OIL	IFMEN	
	primary return temperature	(060)	min	-IVIENS ROLLO	
004	limitations  May limitation of temporature	°C		Only with plant types 4 0 0 4 0 5 4 7	
231	Max. limitation of temperature differential (between primary	°C ( / 0.550.0)	°C	Only with plant types 1, 2, 3, 4, 6 and 7	
	return and secondary return	(/ 0.350.0)	C	– function deactivated	
	temperature)				
232	Max. setpoint of the return	°C			
	temperature during d.h.w.	( / 0140)	°C		
	heating on legionella setpoint	( /			
236	Raising the reduced room	0		Effect of outside temperature on the reduced	
	temperature setpoint	(010)		setpoint of the room temperature	
				0 = function deactivated	
237	Daily forced d.h.w. heating at	1		Only with plant types 2, 3, 6, 7 and 8	
	the start of release period 1	(0 / 1)		0 = function deactivated	
				1 = function activated	
238	Idle heat function primary flow	min		Only with plant types 4 and 5 = function deactivated	
		( / 3255)	min	If B7 is available, place sensor as indicated:	
				•	
				<u>⊕B1</u>	
				MY1 / 6	
				① ① ① ① ① ① ① ① ① ① ② ② ② ② ② ② ② ② ② ③ ② ③	
				R7 P7	
				D, 4 4	
05.1	Valde a sa dia feet a constitu	•			
251	Locking on the hardware side	0		0 = no locking	
	POINS	(0 / 1)		1 = code can be entered only when terminals B71–M on the base are bridged	
		-WENSI	1		
V.	Keep Instructions				
-		Callia Cara Tarakan B			
∟nter	the settings and keep these Ins	taliation Instructions			
m a s	afe place!				

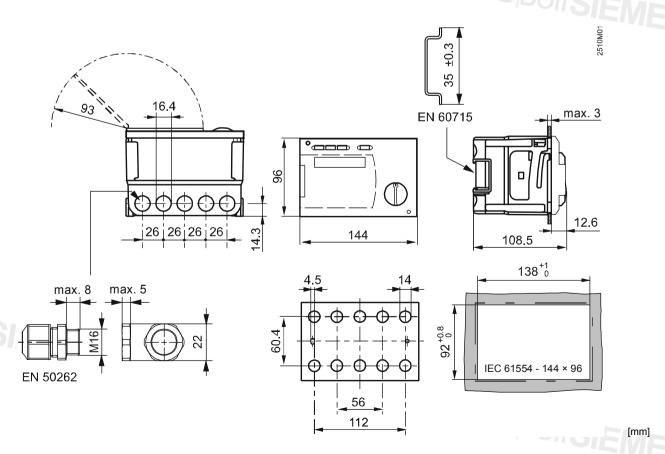
#### **Keep Instructions**

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## SIEMENS Bolt SIEMENS Bolt SIEM

### **Dimensions**



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