



DDC-Regel **UNIT 9X** kompakt

Operating Manual

Part 2 - RU 96.1F-110

release 2.1

This operating manual consists of two parts:

Part 1: General information

Construction, operation, mounting, installation, initialisation, maintenance, error messages, technical data (relevant for all types of controller)

Part 2: type relevant information

Control elements, system diagrams, terminal diagrams
(relevant only for a specific type of controller)

Note on safety:

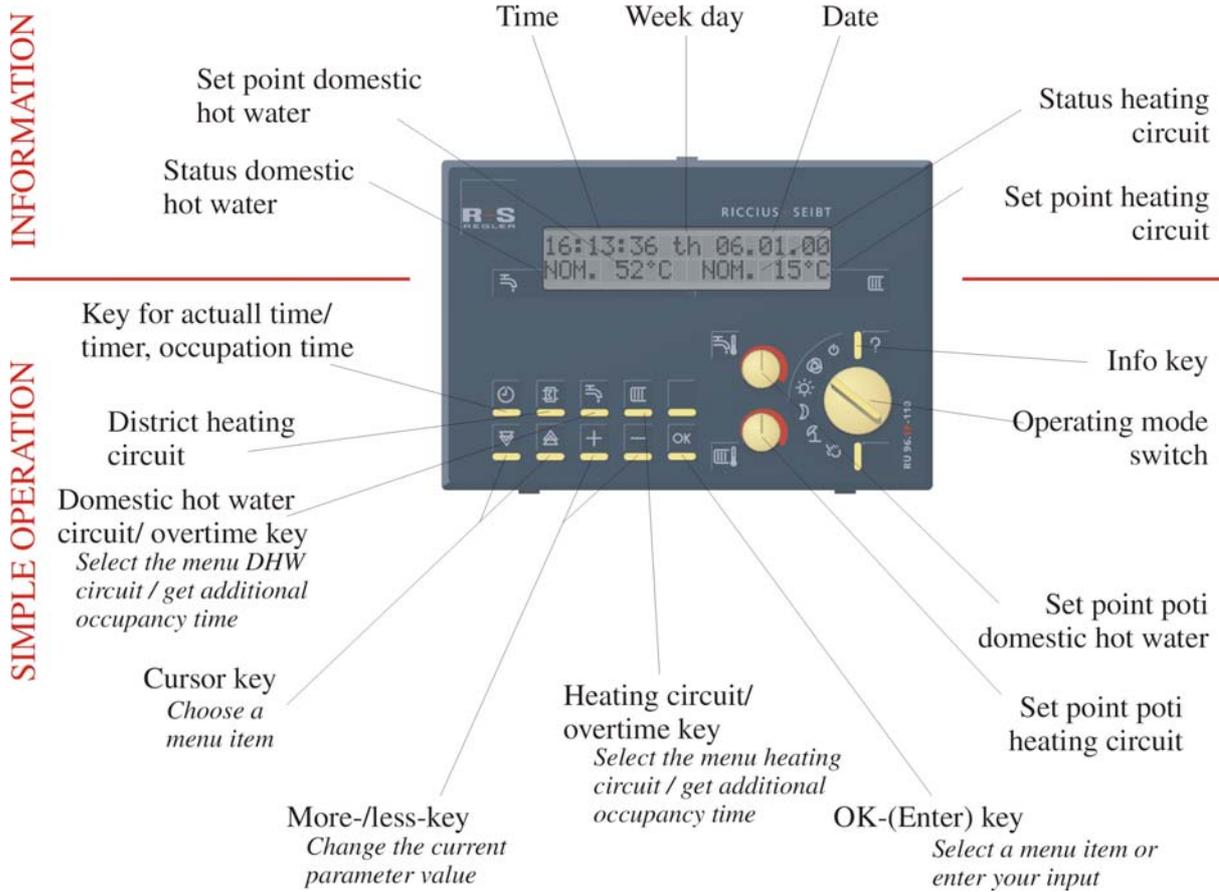


Caution!

Before removing the controller from the terminal socket:

Switch off main voltage!

1 Control Elements



2 System Diagrams

<p>41</p>	<p>1 district heating circuit, 1 uncontrolled heating circuit</p>	<p>41</p>
<p>51</p>	<p>1 district heating circuit, 1 domestic hot water circuit, 1 uncontrolled heating circuit</p>	<p>51</p>
<p>52</p>	<p>1 district heating circuit, 1 domestic hot water circuit (Storage loading system), 1 uncontrolled heating circuit</p>	<p>52</p>

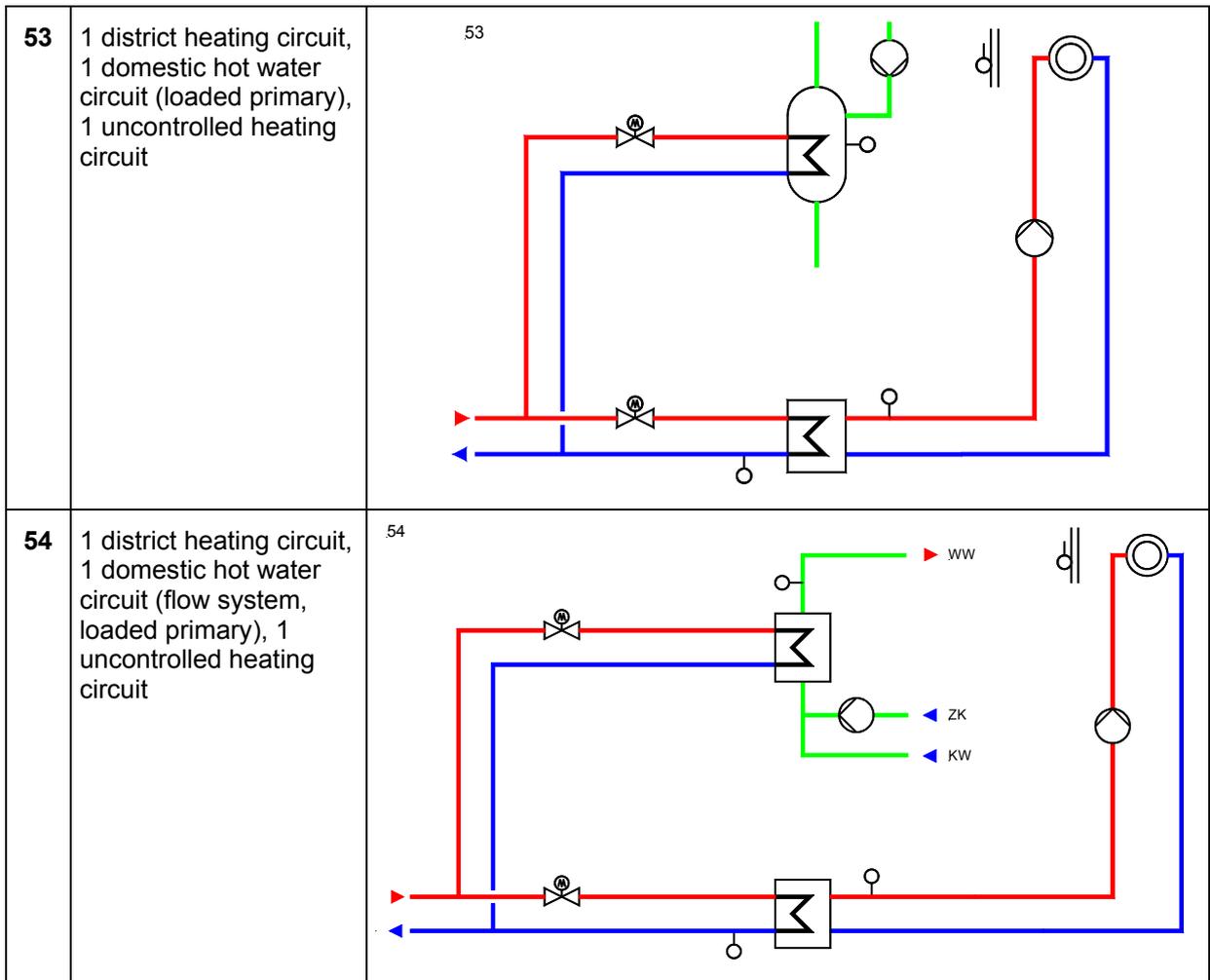
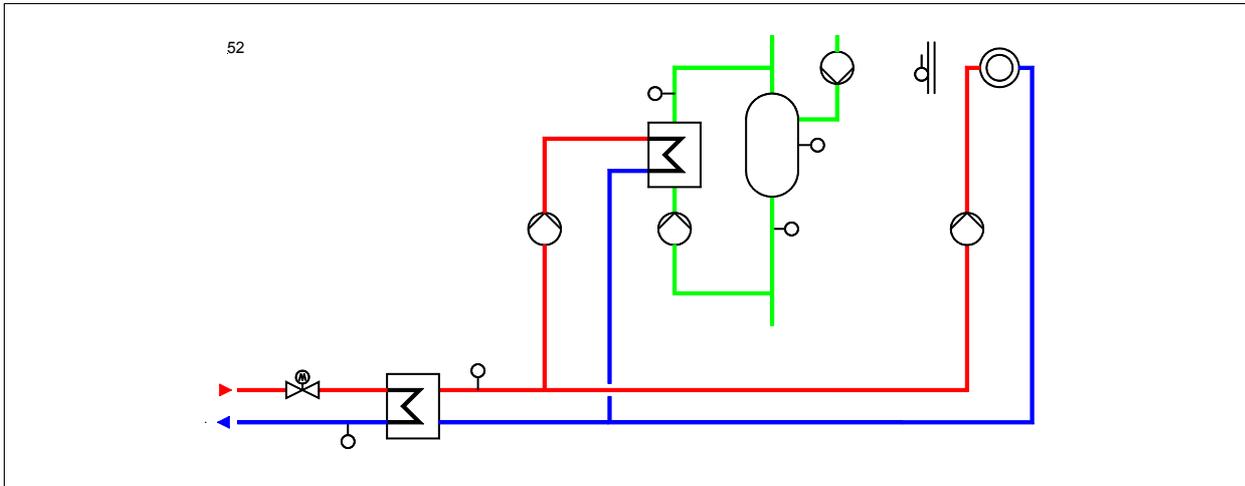


diagram 52: 1 district heating circuit, 1 domestic hot water circuit, 1 uncontrolled heating circuit



terminal configuration RU 96.1F-110-52

outside temperature
sec.-flow temp.
<i>not assigned</i>
storage temp. DHW
storage temp.2 DHW
prim.-return temp.
flow temp. DHW
drop pump HC
sensor ground
CAN-Bus *)
CAN-Bus *)
counter / M-Bus **)
SSK ***)
SSK ***)
power supply Bus
power supply Bus

17	M-sensor		16
18	M-sensor		15
19	M-sensor		14
20	M-sensor		13
21	M-sensor		12
22	M-sensor		11
23	M-sensor		10
24	OC-Ausgang		9
25	⊥		8
26	CAN-H		7
27	CAN-L	6	
28	M-Bus A / Z	5	
29	A/TxD	4	
30	B/RxD	3	
31	- SVB	2	
32	+ SVB	1	

N	230 VAC
L	
	pump HC
	storage loading pump
	exchanger loading pump
	valve dist.heat. close
	valve dist.heat. open
	DHW-circ.-Pump

bold printed inputs **must** be connected.

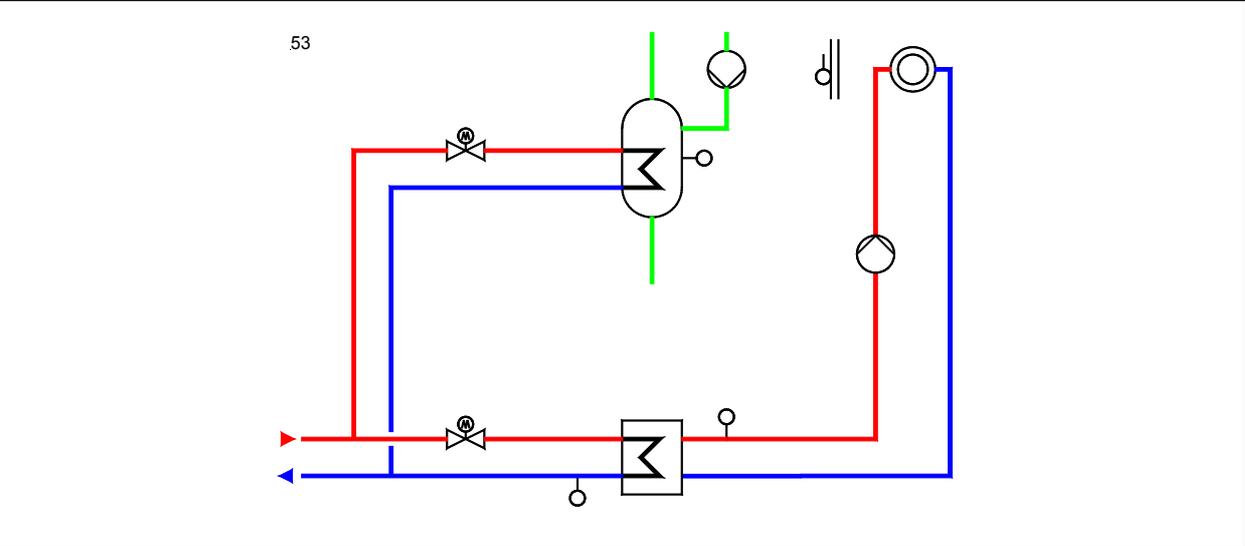
cursive printed inputs and outputs can be connected after they have been assigned and the proper function was activated.

*) only with controllers with CAN-interface

***) only with controllers with M-Bus-interface

***) only with controllers with interface for PC, Modem, Bus

diagram 53: 1 district heating circuit, 1 domestic hot water circuit, 1 uncontrolled heating circuit



terminal configuration RU 96.1F-110-53

outside temperature
sec.-flow temp.
<i>not assigned</i>
storage temp. DHW
<i>not assigned</i>
prim.-return temp.
<i>not assigned</i>
drop pump HC
sensor ground
CAN-Bus *)
CAN-Bus *)
counter / M-Bus **)
SSK ***)
SSK ***)
power supply Bus
power supply Bus

17	M-sensor		16
18	M-sensor		15
19	M-sensor		14
20	M-sensor		13
21	M-sensor		12
22	M-sensor		11
23	M-sensor		10
24	OC-Ausgang		9
25	⊥		8
26	CAN-H		7
27	CAN-L	6	
28	M-Bus A / Z	5	
29	A/TxD	4	
30	B/RxD	3	
31	- SVB	2	
32	+ SVB	1	

N	230 VAC
L	
	pump HC
	valve DHW close
	valve DHW open
	valve dist.heat. close
	valve dist.heat. open
	DHW-circ.-Pump

bold printed inputs **must** be connected.

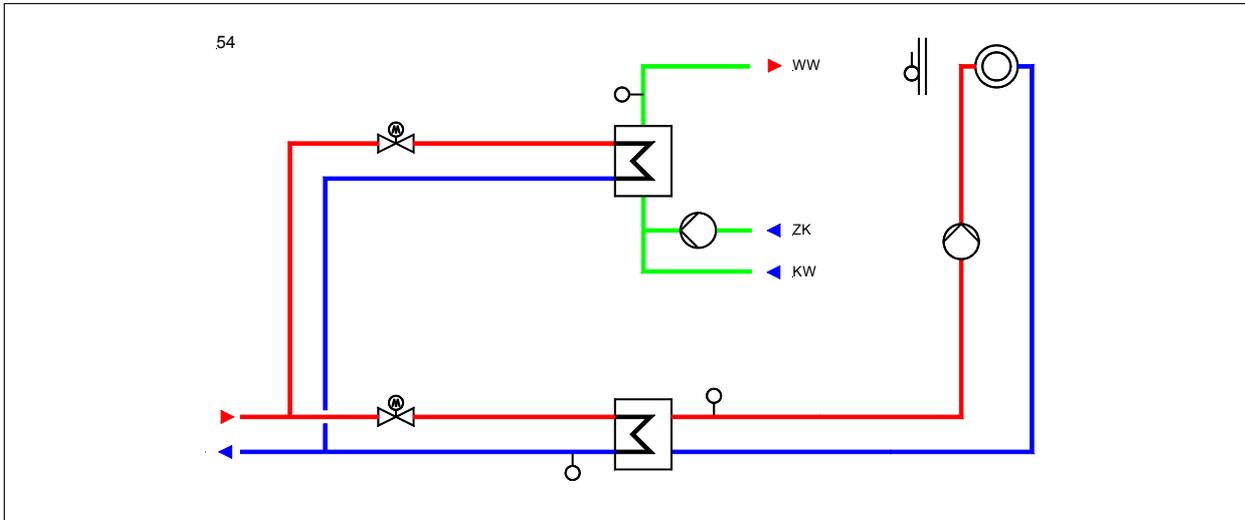
ursive printed inputs and outputs can be connected after they have been assigned and the proper function was activated.

*) only with controllers with CAN-interface

**) only with controllers with M-Bus-interface

***) only with controllers with interface for PC, Modem, Bus

diagram 54: 1 district heating circuit, 1 domestic hot water circuit, 1 uncontrolled heating circuit



terminal configuration RU 96.1F-110-54

outside temperature
sec.-flow temp.
<i>not assigned</i>
<i>not assigned</i>
<i>not assigned</i>
prim.-return temp.
flow temp. DHW
drop pump HC
sensor ground
CAN-Bus *)
CAN-Bus *)
counter / M-Bus **)
SSK ***)
SSK ***)
power supply Bus
power supply Bus

17	M-sensor		16
18	M-sensor		15
19	M-sensor		14
20	M-sensor		13
21	M-sensor		12
22	M-sensor		11
23	M-sensor		10
24	OC-Ausgang		9
25	⊥		8
26	CAN-H		7
27	CAN-L	6	
28	M-Bus A / Z	5	
29	A/TxD	4	
30	B/RxD	3	
31	- SVB	2	
32	+ SVB	1	

N	230 VAC
L	
	pump HC
	valve DHW close
	valve DHW open
	valve dist.heat. close
	valve dist.heat. open
	DHW-circ.-Pump

bold printed inputs **must** be connected.

cursive printed inputs and outputs can be connected after they have been assigned and the proper function was activated.

*) only with controllers with CAN-interface

***) only with controllers with M-Bus-interface

***) only with controllers with interface for PC, Modem, Bus

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