# MR07-PLC module controller

The MR07-PLC is an electronic control device for flush mounting.

The REL board (BASIS board) is connected directly to the control unit.

If a communication board (COM-BASIS) is available, this is also connected directly to the control unit, as well as a possible extension with additional modules for analog or digital inputs and outputs. The cables are routed in the DIN rail.

The heating circuit expansion modules 1-6 are connected to the control panel.

REL board module controller MR07:

Supply and Outputs 230V~

Supply feed 230VAC	L Phase
	N Neutral Conductor
	PE Protective Conductor
Output for HC-Module 1/2/3 230VAC	L Phase
	N Neutral Conductor
	PE Protective Conductor
Output for HC-Module 4/5/6 230VAC	L Phase
	N Neutral Conductor
	PE Protective Conductor
1	M1 district heating valve OPEN
2	M1 CLOSE district heating valve
N	M1 district heating valve N
PE	M1 district heating valve PE
3	P1 heating pump circuit 1
N	P1 heating pump circuit 1 N
PE	P1 heating pump circuit 1 PE
4	P2 boiler pump
N	P2 boiler pump N
PE	P2 boiler pump PE
5	P3 circulation pump
N	P3 circulation pump N
PE	P3 circulation pump PE
6	M2 mixing valve circuit 2 OPEN
7	M2 mixing valve circuit 2 CLOSED
N	M2 mixing valve circuit 2 N
PE	M2 mixing valve circuit 2 PE
8	P4 heating pump circuit 2
N	P4 heating pump circuit 2 N
PE	P4 heating pump circuit 2 PT

GND	Ground	
10	T10 outside temperature	
GND	Ground	
11	T11 Primary return temperature	
GND	Ground	
12	T12 Secondary flow temperature	
GND	Ground	
13	T13 boiler temperature above	
GND	Ground	
14	T14 boiler temperature below	
GND	Ground	
15	T15 Secondary return temperature	
GND	Ground	
16	T16 flow temperature circuit 2	
GND	Remote control signals and Ground	
17	T17 remote control heating circuit 1 temperature	
18	T18 heating circuit remote control 1 signal	
19	T19 remote control heating circuit 1 VCC	
GND	Remote control signals and Ground	
20	T20 remote control heating circuit 2 temperature	
21	T21 remote control heating circuit 2 signal	
22	T22 remote control heating circuit 2 VCC	
GND	Ground	
23	T23 temperature reserve	
GND	Ground	
24	T24 temperature reserve	
GND	Ground	
25	T25 analog input 1 (0-10V / 4-20mA)	
26	T26 analog input 1 (0-10V / 4-20mA)	

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MR07-PLC module controller

Supply feed 230VAC
- L Phase
- N Neutral Conductor
- PE Protective Conductor

Output for HC-Module 1/2/3 230VAC
- L Phase
- N Neutral Conductor
- PE Protective Conductor

Output for HC-Module 4/5/6 230VAC
- L Phase
- N Neutral Conductor
- PE Protective Conductor

- 1 M1 District Heating Valve OPEN
- 2 M1 District Heating Valve CLOSE
- N M1 District Heating Valve N
- PE M1 District Heating Valve PE

- 3 P1 Heating Pump Circuit 1
- N P1 Heating Pump Circuit 1 N
- PE P1 Heating Pump Circuit 1 PE

- 4 P2 DHW Boiler Pump
- N P2 DHW Boiler Pump N
- PE P2 DHW Boiler Pump PE

- 5 P3 Circulation Pump
- N P3 Circulation Pump N
- PE P3 Circulation Pump PE

- 6 M2 3-way Valve Circuit 2 OPEN
- 7 M2 3-way Valve Circuit 2 CLOSE
- N M2 3-way Valve Circuit 2 N
- PE M2 3-way Valve Circuit 2 PE

- 8 P4 Heating Pump Circuit 2
- N P4 Heating Pump Circuit 2 N
- PE P4 Heating Pump Circuit 2 PE
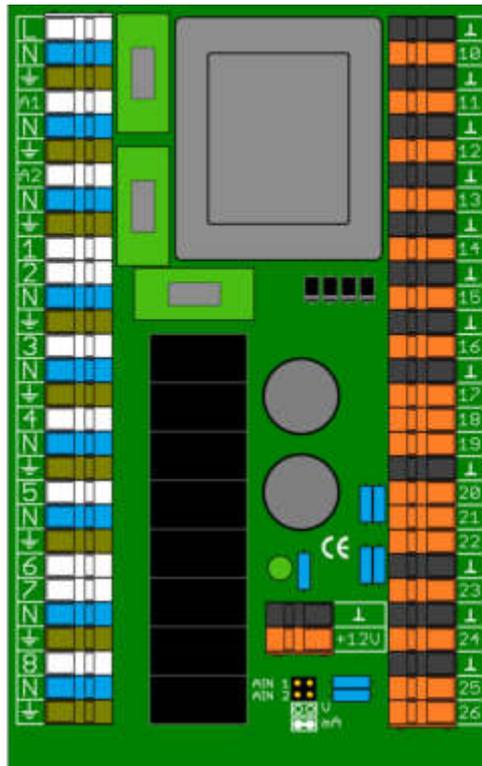
- GND Ground
- 10 T10 Outdoor Temperature
- GND Ground
- 11 T11 Primary Supply Temperature
- GND Ground
- 12 T12 Secondary Supply Temperature
- GND Ground
- 13 T13 Temperature DHW top
- GND Ground
- 14 T14 Temperature DHW bottom
- GND Ground
- 15 T15 Secondary Return Temperature
- GND Ground
- 16 T16 Supply Temperature Circuit 2
- GND Remote Control Signal and GND
- 17 Remote Control Heating Circuit 1 Temperature
- 18 Remote Control Heating Circuit 1 Signal
- 19 Remote Control Heating Circuit 1 VCC
- GND Remote Control Signal and GND
- 20 Remote Control Heating Circuit 2 Temperature
- 21 Remote Control Heating Circuit 2 Signal
- 22 Remote Control Heating Circuit 2 VCC
- GND Ground
- 23 T25 Temperature Reserve
- GND Ground
- 24 T26 Temperature Reserve
- GND Ground
- 25 AIN1 Analog Input 1 (0-10V/4-20mA)
- 26 AIN2 Analog Input 2 (0-10V/4-20mA)

Outputs 230VAC 3A
- 1 1P1 Pump of Heating Circuit 3
- 2 1M1 Circuit 3 of mixed valve OPEN
- 3 1M1 Circuit 3 of mixed valve CLOSED
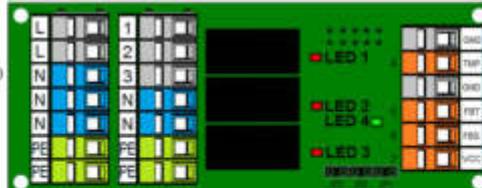
Temperatures PT1000
Signal and GND (2-pole shielded)
- TMP 1T1 Flow temperature Circuit 3

Remote Control
Signal and GND (4-pole shielded)
- FBT Remote control circuit 3 temperature
- FBS Remote control circuit 3 signal
- VCC Remote control circuit 3 VCC

Outputs 230VAC 3A
- 1 2P1 Pump of Heating Circuit 4
- 2 2M1 Circuit 4 of mixed valve OPEN
- 3 2M1 Circuit 4 of mixed valve CLOSED
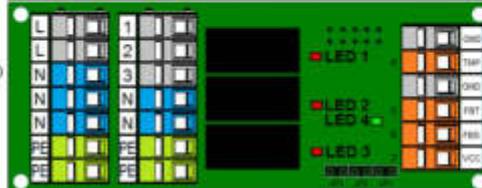
Temperatures PT1000
Signal and GND (2-pole shielded)
- TMP 2T1 Flow temperature Circuit 4

Remote Control
Signal and GND (4-pole shielded)
- FBT Remote control circuit 4 temperature
- FBS Remote control circuit 4 signal
- VCC Remote control circuit 4 VCC

Outputs 230VAC 3A
- 1 3P1 Pump of Heating Circuit 5
- 2 3M1 Circuit 5 of mixed valve OPEN
- 3 3M1 Circuit 5 of mixed valve CLOSED
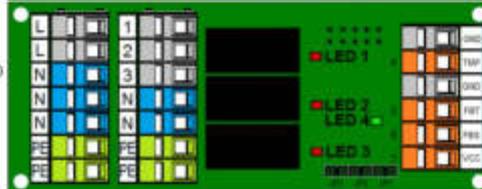
Temperatures PT1000
Signal and GND (2-pole shielded)
- TMP 3T1 Flow temperature Circuit 5

Remote Control
Signal and GND (4-pole shielded)
- FBT Remote control circuit 5 temperature
- FBS Remote control circuit 5 signal
- VCC Remote control circuit 5 VCC

Outputs 230VAC 3A
- 1 4P1 Pump of Heating Circuit 6
- 2 4M1 Circuit 6 of mixed valve OPEN
- 3 4M1 Circuit 6 of mixed valve CLOSED
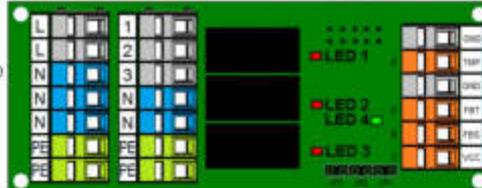
Temperatures PT1000
Signal and GND (2-pole shielded)
- TMP 4T1 Flow temperature Circuit 6

Remote Control
Signal and GND (4-pole shielded)
- FBT Remote control circuit 6 temperature
- FBS Remote control circuit 6 signal
- VCC Remote control circuit 6 VCC

Outputs 230VAC 3A
- 1 5P1 Pump of Heating Circuit 7
- 2 5M1 Circuit 7 of mixed valve OPEN
- 3 5M1 Circuit 7 of mixed valve CLOSED
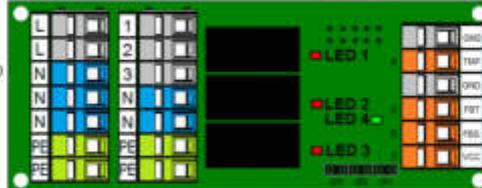
Temperatures PT1000
Signal and GND (2-pole shielded)
- TMP 5T1 Flow temperature Circuit 7

Remote Control
Signal and GND (4-pole shielded)
- FBT Remote control circuit 7 temperature
- FBS Remote control circuit 7 signal
- VCC Remote control circuit 7 VCC

Outputs 230VAC 3A
- 1 6P1 Pump of Heating Circuit 8
- 2 6M1 Circuit 8 of mixed valve OPEN
- 3 6M1 Circuit 8 of mixed valve CLOSED
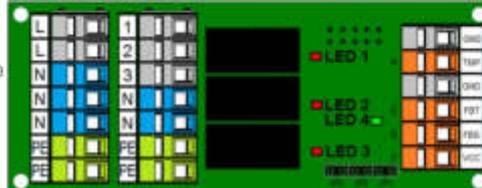
Temperatures PT1000
Signal and GND (2-pole shielded)
- TMP 6T1 Flow temperature Circuit 8

Remote Control
Signal and GND (4-pole shielded)
- FBT Remote control circuit 8 temperature
- FBS Remote control circuit 8 signal
- VCC Remote control circuit 8 VCC

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