

REL board MR07-PLC module controller

SCHNEID MR07-PLC REL terminal board

Order number:	170.xxxxx
Order code:	MR07-SPS Anklemmplatine



Overview:

Microprocessor-controlled control device for controlling district heating transfer stations with the option of modular expansion to a total of ten heating circuits and additional recording of the heat meter data and forwarding of all data to a higher-level network optimization computer in the boiler house.

The controller has a modular design and can control and regulate a direct heating circuit, seven mixer circuits, a boiler circuit and a circulation circuit in its maximum configuration.

The MR-07 module controller is equipped with a graphic display with 128x64 pixels. To support menu selection and parameter input, there are also four symmetrically arranged buttons.

The MR-07 module controller is also equipped with an MMC card, which can be used as program memory, parameter memory or trend memory. This makes commissioning standard systems a simple matter because MMC cards can be preprogrammed using a notebook.

The MMC card can also be used as a data memory for various bitmaps for graphic display on the controller and as a foreign language memory.

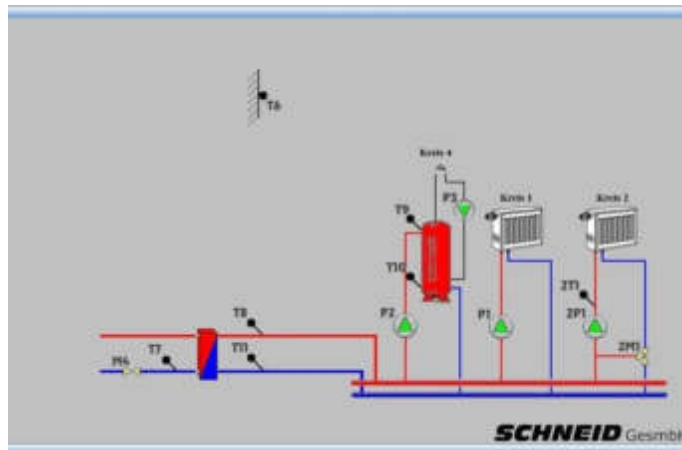
There are three ways to upload new application programs:

- Installation of a new MMC card
- Upload the program via programming adapter
- Upload a program via data interface and boiler house computer

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HEATING CONTROLLER base unit

- Three-point output for primary valve
- Two-point output for boiler 1
- Two-point output for boiler 2 (or circulation circuit)
- Two-point output for a direct heating circuit
- Three-point output for a mixer heating circuit#
- six mixer heating circuit modules can also be connected
- A remote control can be connected to each heating circuit
- two analog inputs for the set temperature via 0-10V (4-20mA)
- Additional detection of the secondary return temperature
- two temperature inputs for visualization purposes

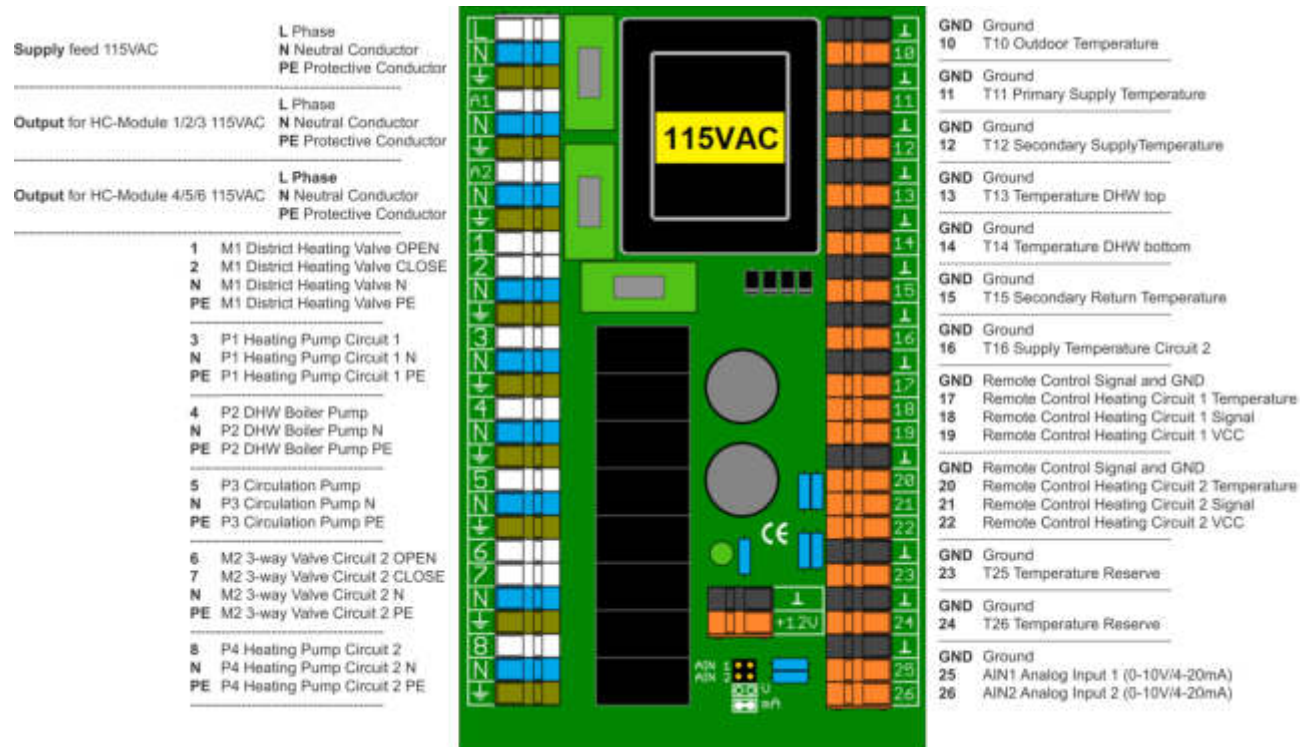
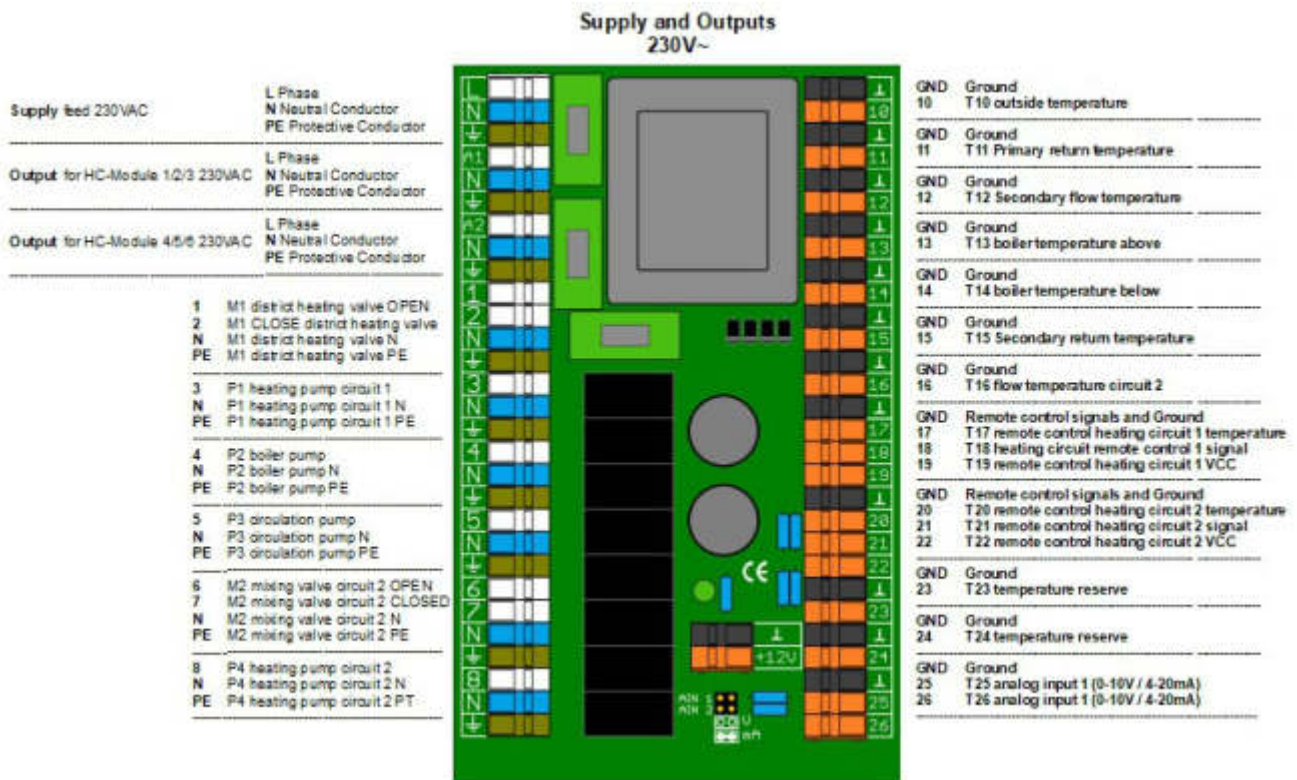


General regulatory specifications:

- Power limited heat transfer
- Heat transfer dependent on outside temperature
- Heat absorption-controlled heat transfer
- Return temperature-dependent return limitation
- Connection option for 6 heating circuit modules
- Regulation of a direct heating circuit and 7 direct / mixer heating circuits
- Heating curve control dependent on outside temperature
- Pump shutdown dependent on outside temperature
- Pump temperature cut-off depending on the room temperature
- three daily heating times per heating circuit
- Heating time inversion as reduction times
- blackout times
- Outside temperature averaging up to nine hours
- building coefficient (= building storage capacity)
- Optimization of the on / off times with a room sensor
- Control via room sensor
- Regulation via adjustable room influence
- Room control via thermostat function
- Remote control for each heating circuit
- Two external 0-10V setpoint specifications with additional print
- Control of boiler circuits in various designs
- Boiler priority circuit / parallel boiler operation
- Different boiler hydraulic variants such as loading module / with mixer / primary etc.
- Various boiler loading criteria such as periods / minimum temperature / setpoint charging
- various boiler shutdown criteria such as setpoint above / below / loading time etc.
- Boiler load locks after temperature / if target values are not reached

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REL terminal board module controller MR07-PLC:



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Scope of delivery:

MR07-PLC REL terminal board (with connection cable 500mm)

Order number: 170.12066

Order code: MR07-SPS Anklemmplatine

MR07-PLC REL terminal board 115VAC (with connection cable 500mm)

Order number: 170.12928

Order code: MR07-SPS Anklemmplatine 115VAC

Technical specifications:

Intrastat number:	8537.10.91.90
Country of origin	EU/AT
Height, width, depth (in mm)	REL-Platine 100x164x42
Weight (in kg)	REL-Platine: 0,528
Degree of protection	IP-20
Ambient temperature	0°C....+40°C
Operating voltage	230VAC oder 115VAC
Power consumption	Max. 10VA
Max. Nominal current "A1 + A2"	Je 2 A
Max. Total nominal current	3,15A
Max. Nominal current per output	2A continuous current // max. 15A inrush current
Relay output life	50 x 10 ³ switching cycles
Connection type	Fixed wiring terminals
Connection technology	Spring clamp
Cable cross section	Max. 2.5mm ²
Mounting type	DIN-RAIL TS35
Operating time	Continuous operation
Degree of pollution	2
Rated impulse voltage	1kV
Sensor type temperature sensor	PT1000