

SPC-MC1 Base Unit

Microprocessor-controlled control device

Microprocessor-controlled control device MC1

for controlling district heating transfer stations with the option for modular expansion

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| Order number: | 310.15817 |
| Order code: | Mikroprozessorgesteuertes Regelgerät MC1 |



Overview:

Microprocessor-controlled control device for controlling heating plants or district heating networks.

The basic version of the controller SPC-MC1 has:

- 23 digital inputs
- 10 analog inputs (0-10V / 0 (4) -20mA)
- 2 pulse inputs
- 8 digital outputs (4 each via a collector)
- 8 analog outputs (0-10V)

The SPC-MC1 module controller is equipped with a graphic display with 128x64 pixels. For support when selecting the menu and entering parameters, there are also four symmetrically arranged buttons to disposal.

The SPC-MC1 module controller is also equipped with a 2 Gigabyte MMC card that 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 SD 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 a programming adapter
- Upload a program via the data interface and the boiler house computer

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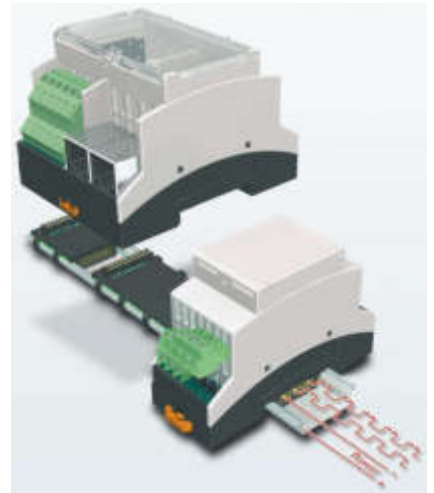
Microprocessor-controlled control device

Assembly:

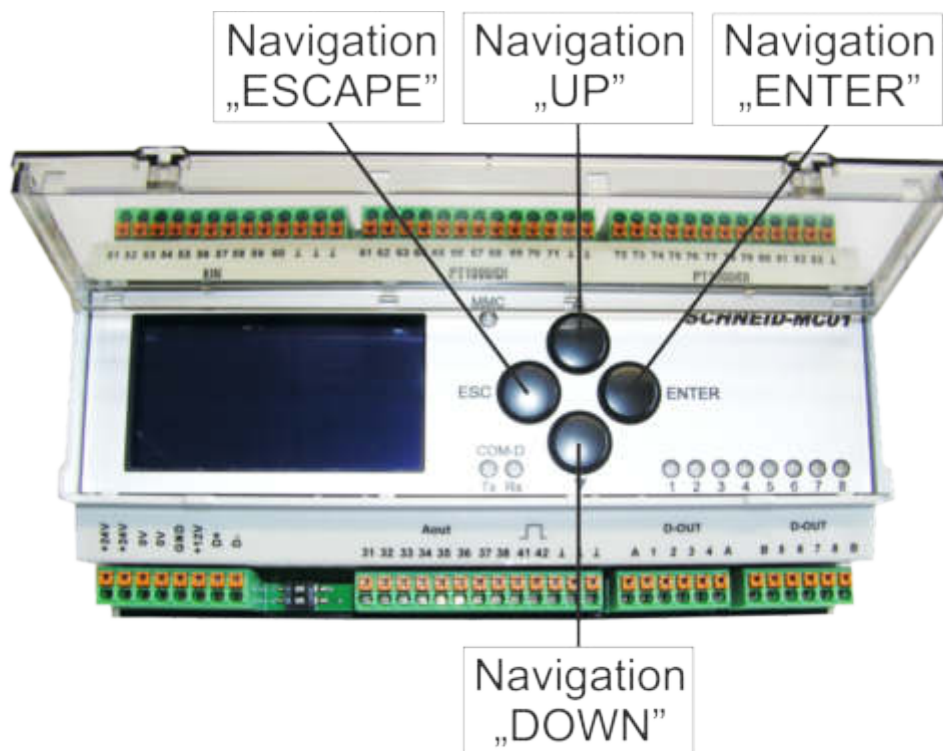
DIN rail connector:

The installation housings are mounted on an NS-35 mounting rail. There is the option of inserting a 16-pin DIN rail connector into the DIN rail, which establishes automatic contacting from device to device. Data and energy can be transmitted in series or in parallel via the bus connector (4 x power, 2 x serial, 10 x parallel). Individual devices can be easily inserted or removed without disassembling the module network.

- Allows a quick and easy connection of the modules
- Data transmission and power supply
- Simple module installation, no breakup of the network when replacing modules, less wiring



Function keys:



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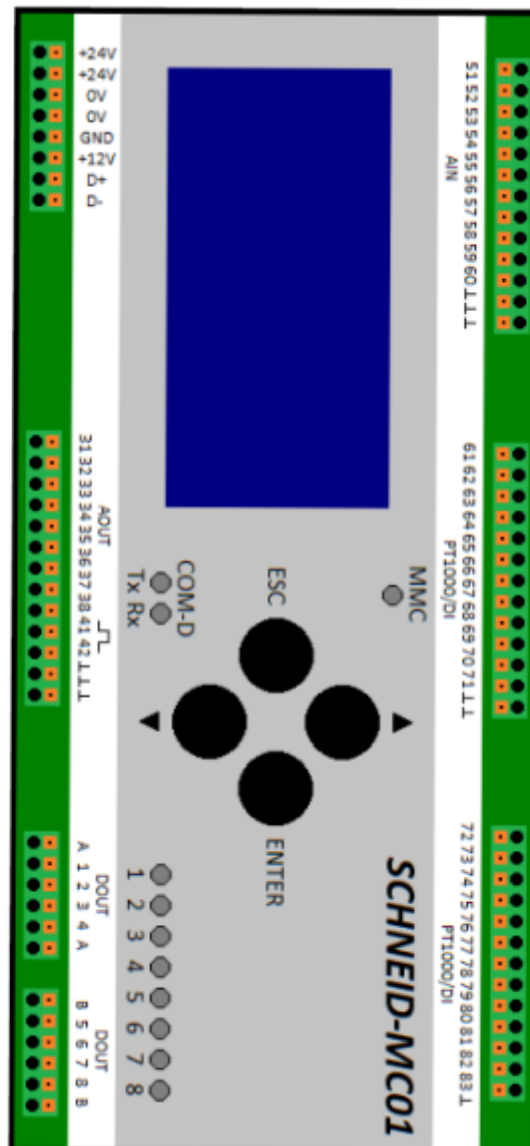
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Terminal plan:

+24VDC: supply 24V
 +24VDC: supply 24V
 0V
 0V
 GND
 +12VDC: supply 12V
 D+: COM-D
 D-: COM-D

Terminal 31: AOUT 1
 Terminal 32: AOUT 2
 Terminal 33: AOUT 3
 Terminal 34: AOUT 4
 Terminal 35: AOUT 5
 Terminal 36: AOUT 6
 Terminal 37: AOUT 7
 Terminal 38: AOUT 8
 Terminal 41: Pulse input 1
 Terminal 42: Pulse input 2
 GND
 GND
 GND

Terminal A: 230VAC or 24VDC
 Terminal 1: DOUT 1
 Terminal 2: DOUT 2
 Terminal 3: DOUT 3
 Terminal 4: DOUT 4
 Terminal A: 230VAC or 24VDC
 Terminal B: 230VAC or 24VDC
 Terminal 5: DOUT 5
 Terminal 6: DOUT 6
 Terminal 7: DOUT 7
 Terminal 8: DOUT 8
 Terminal B: 230VAC or 24VDC



Terminal 51: AIN 1
 Terminal 52: AIN 2
 Terminal 53: AIN 3
 Terminal 54: AIN 4
 Terminal 55: AIN 5
 Terminal 56: AIN 6
 Terminal 57: AIN 7
 Terminal 58: AIN 8
 Terminal 59: AIN 9
 Terminal 60: AIN 10
 GND
 GND
 GND

Terminal 61: PT1000/DIN 1
 Terminal 62: PT1000/DIN 2
 Terminal 63: PT1000/DIN 3
 Terminal 64: PT1000/DIN 4
 Terminal 65: PT1000/DIN 5
 Terminal 66: PT1000/DIN 6
 Terminal 67: PT1000/DIN 7
 Terminal 68: PT1000/DIN 8
 Terminal 69: PT1000/DIN 9
 Terminal 70: PT1000/DIN 10
 Terminal 71: PT1000/DIN 11
 GND
 GND

Terminal 72: PT1000/DIN 12
 Terminal 73: PT1000/DIN 13
 Terminal 74: PT1000/DIN 14
 Terminal 75: PT1000/DIN 15
 Terminal 76: PT1000/DIN 16
 Terminal 77: PT1000/DIN 17
 Terminal 78: PT1000/DIN 18
 Terminal 79: PT1000/DIN 19
 Terminal 80: PT1000/DIN 20
 Terminal 81: PT1000/DIN 21
 Terminal 82: PT1000/DIN 22
 Terminal 83: PT1000/DIN 23
 GND

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Scope of delivery:

Microprocessor-controlled control device MC1 with HBus connector for top hat rail.

Technical specifications:

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| Intrastat number: | 8537.10.91.90 |
| Country of origin | EU/AT |
| Height, width, depth (in mm) | 90 x 161 x 62 |
| Weight (in kg) | 0.3780 |
| Assembly | on TH35 mounting rail according to IEC 60715 |
| Alignable | without distance After connecting 15 Modbus modules or a maximum current consumption of 2 A (AC or DC) per connection on the power supply unit, the supply voltage must be restarted externally. |
| Casing | Polyamid 6.6 V0 |
| Terminals | Polyamid 6.6 V0 |
| Cover | Polycarbonat |
| Degree of protection (IEC 60529) housing | IP40 |
| Degree of protection (IEC 60529) Terminals | IP20 |
| Protective circuit | Reverse polarity protection of the operating voltage Reverse polarity protection of supply and bus |
| Operating temperature range | -5 °C bis +55 °C |
| Storage temperature range | -20 °C bis +70 °C |