

# **SPC-MC1 Complete Assembly**

## **Microprocessor-controlled control device**

### **MC1 complete assembly**

MC1 base unit + R20 relay expansion module + CM1 communication board TCP-MBus-RS485

<b>Order number:</b>	<b>310.16266</b>
<b>Order code:</b>	<b>MC1 Komplettbestückung</b>



### **Overview:**

Microprocessor-controlled, freely programmable PLC for fulfilling a wide range of control and regulation tasks with the option for modular expansion with bus-compatible analog and digital input and output modules.

Standard assignment with R20 relay board and CM1 communication board:

28 digital outputs (230VAC or potential-free)

23 digital inputs (floating)

10 analog inputs (0-10V / 0 (4) -20mA)

8 analog outputs (0-10V)

2 pulse inputs

4 bus interfaces

Supplied with HBUS connector for top hat rail, MBM-08 plug-in card for heat meter and TCP module for communication.

# SPC-MC1 Complete Assembly

## Microprocessor-controlled control device

### Assembly:

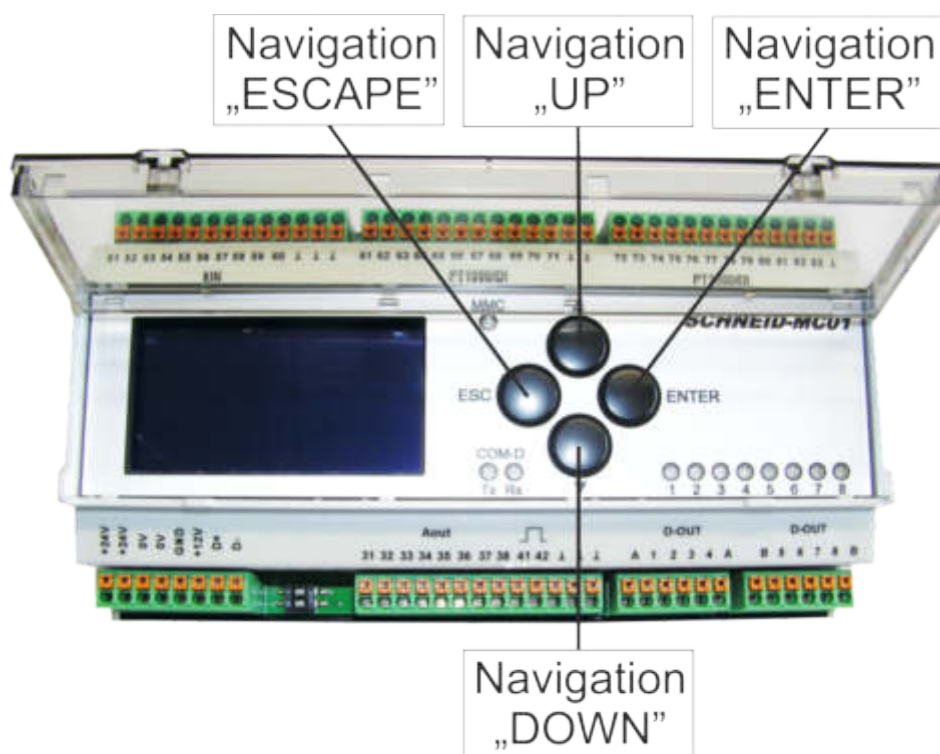
#### DIN rail connector:

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:



# SPC-MC1 Complete Assembly

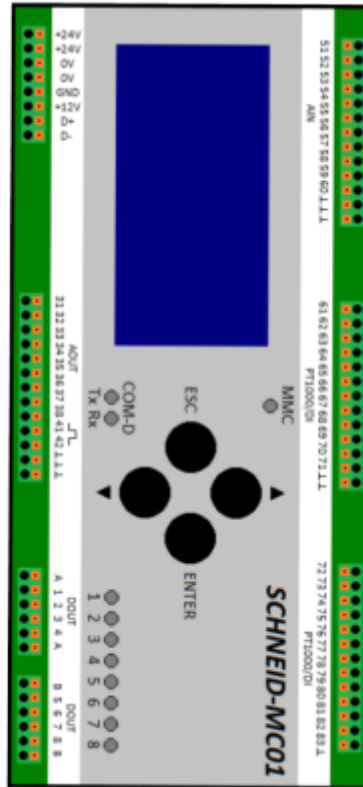
## Microprocessor-controlled control device

### 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

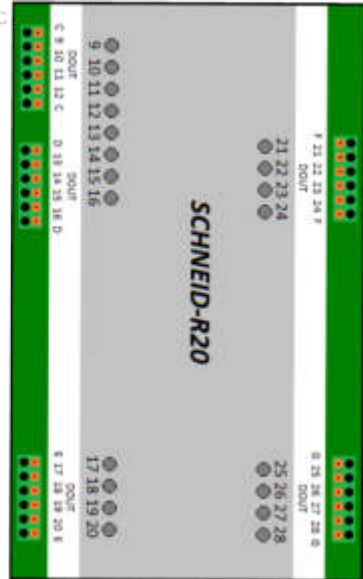


Terminal 51 AIN 1  
 Terminal 52 AIN 2  
 Terminal 53 AIN 3  
 Terminal 54 AIN 4  
 Terminal 55 AIN 5  
 Terminal 56 AIN 6  
 Terminal 57 AIN 7  
 Terminal 58 AIN 8  
 Terminal 59 AIN 9  
 Terminal 60 AIN 10  
 GND  
 GND  
 GND

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

Terminal C 230VAC oder 24VDC  
 Terminal 9 DOUT 9  
 Terminal 10 DOUT 10  
 Terminal 11 DOUT 11  
 Terminal 12 DOUT 12  
 Terminal C 230VAC or 24VDC  
 Terminal D 230VAC or 24VDC  
 Terminal 13 DOUT 13  
 Terminal 14 DOUT 14  
 Terminal 15 DOUT 15  
 Terminal 16 DOUT 16  
 Terminal D 230VAC or 24VDC



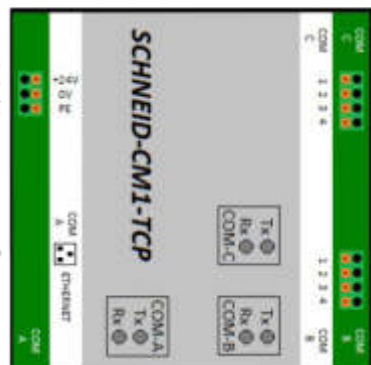
Terminal F 230VAC or 24VDC  
 Terminal 21 DOUT 21  
 Terminal 22 DOUT 22  
 Terminal 23 DOUT 23  
 Terminal 24 DOUT 24  
 Terminal F 230VAC or 24VDC

Terminal E 230VAC or 24VDC  
 Terminal 17 DOUT 17  
 Terminal 18 DOUT 18  
 Terminal 19 DOUT 19  
 Terminal 20 DOUT 20  
 Terminal E 230VAC or 24VDC

Terminal G 230VAC or 24VDC  
 Terminal 25 DOUT 25  
 Terminal 26 DOUT 26  
 Terminal 27 DOUT 27  
 Terminal 28 DOUT 28  
 Terminal G 230VAC or 24VDC

+24VDC: Supply 24V  
 0V  
 PE

COM-A TCP/IP



Terminal 1: COM-C D+  
 Terminal 2: COM-C D-  
 Terminal 3: COM-C D+  
 Terminal 4: COM-C D-

Terminal 1: COM-B MB+  
 Terminal 2: COM-B MB-  
 Terminal 3: COM-B MB+  
 Terminal 4: COM-B MB-

# **SPC-MC1 Complete Assembly**

## **Microprocessor-controlled control device**

### **Scope of delivery:**

Microprocessor-controlled control unit MC1 with HBus connector for top hat rail, expansion module R20 and CM1 communication module TCP-MBus-RS485.

### **Technical specifications:**

Intrastat number:	8537.10.91.90
Country of origin	EU/AT
Height, width, depth (in mm)	90x341x62
Weight (in kg)	0,793
Assembly	<i>on TH35 mounting rail according to IEC 60715</i>
Alignable	<i>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.</i>
Casing	<i>Polyamid 6.6 V0</i>
Terminals	<i>Polyamid 6.6 V0</i>
Cover	<i>Polycarbonat</i>
Degree of protection (IEC 60529) housing	<i>IP40</i>
Degree of protection (IEC 60529) Terminals	<i>IP20</i>
Protective circuit	<i>Reverse polarity protection of the operating voltage Reverse polarity protection of supply and bus</i>
Operating temperature range	<i>-5 °C bis +55 °C</i>
Storage temperature range	<i>-20 °C bis +70 °C</i>