

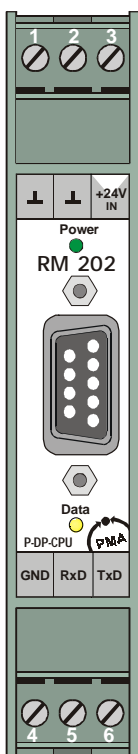


# PROFIBUS-DP Coupler Module RM202

## Safety Instructions

<p><b>ESD !</b></p> <ul style="list-style-type: none"> <li>contains electrostatically sensitive components</li> <li>Original packing protects against electrostatic discharge (ESD)</li> <li>Transporting only in the original packing</li> <li>during mounting rules for protection against ESD must be followed</li> </ul>	<p><b>Connections</b></p> <ul style="list-style-type: none"> <li>Wiring must conform to local standards (e.g. VDE 0100 in Germany) !</li> <li>Input leads must be kept separate from signal and mains leads !</li> <li>The protective earth must be connected to the relevant terminal (in the instrument carrier) !</li> <li>The cable screening must be connected to the terminal for grounded measurement !</li> <li>Usage of twisted and screened input leads prevent stray electric interference !</li> <li>Connections must be made according to the connecting diagrams !</li> </ul>	<p><b>Maintenance / Repair</b></p> <p>Instrument needs no particular maintenance.</p> <p><b>!</b> When opening the instrument live parts or terminals can be exposed. Before carrying out the instrument must be disconnected from all voltage sources. The instrument contains electrostatically sensitive components. The following work may be carried out only by trained, authorized persons.</p> <p><b>Fuse tripped:</b></p> <ul style="list-style-type: none"> <li>Cause must be determined and removed !</li> <li>Only fuses of the same type and current rating as the original fuse must be used.</li> <li>Using repaired fuses or short-circuiting the fuse socket is inadmissible !</li> </ul>
--	---	--

## Pin Assignment



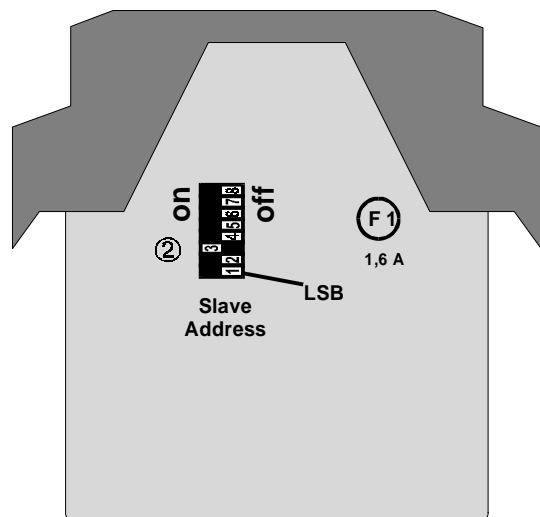
Pin	Assignment	
1	GND	Power supply
2	GND	
3	+24 V DC	
4	GND_RS232	RS 232-Interface
5	RxD	
6	TxD	
Art.-No.	9407-738-20201	

## DIP Switch (8 pos.)

DIP ①	Address
0000 0000	invalid
0000 0001	1
0000 0010	2
0000 0011	3
0000 0100	4 ②
.....	....
0111 1110	126
0111 1111	invalid
8765 4321	Switch-Pos.


① The positions of the switches are shown in binary-code. The number at the lowest position corresponds to the LSB (DIP-switch-position 1) The upper number corresponds to the MSB (DIP-switch-position 8).

② Factory settings



Art.-Nr.: 9499-040-58941 • 30.06.00

## Technical Data RM 202

<b>Application:</b>	central unit of a modular Fieldbus system device.
<b>Power supply:</b>	+24 V DC ( $\pm 10\%$ ), max. power consumption 2.5 W (only RM 202)  The module supplies all I/O modules with the required voltages, those max. current consumption is 1.5 A (depending upon the used I/O modules).
<b>Microprocessor:</b>	MB90F553A with 16 MHz external / 32 MHz internal crystal frequency
<b>Memory:</b>	<ul style="list-style-type: none"><li>● 128 kByte Flash EPROM capable to be updated via RS232</li><li>● 32 kByte static RAM</li><li>● 8 kByte EEPROM kByte</li></ul>
<b>PROFIBUS DP:</b>	<ul style="list-style-type: none"><li>● PROFIBUS DP Slave ASIC SPC3 according to EN 50170</li><li>● galvanic isolation with high speed opto couplers up to 12 MBaud</li><li>● Data transmission rates: 9.6 / 19.2 / 93.75 / 187.5 / 500 / 1500 / 3000 / 6000 / 12000 kBaud</li><li>● automatic Baud rate detection</li><li>● Address range: 1... 126</li></ul>
<b>RS232:</b>	The additional serial interface serves the program updates of the Fieldbus coupler.
<b>Protection:</b>	Protection against change of polarity and overvoltage.
<b>Cycle times:</b>	The attainable I/O cycle time ranges between 0,1 and 2,0 ms depending upon the stage of extension.
<b>LED displays:</b>	<ul style="list-style-type: none"><li>● 1x ' DATA Exchange ' (yellow): data exchange via PROFIBUS DP</li><li>● 1x ' Power ' (green): status of the supply voltage</li></ul>
<b>Potential separation:</b>	The parts of supply voltage, PROFIBUS DP and Logic are galvanically isolated from each other (insulation voltage 500 V DC).
<b>Ambient temperature:</b>	<ul style="list-style-type: none"><li>● Operation: 0... +50 °C</li><li>● Storage: -20... +70 °C</li></ul>
<b>Climatic Application class:</b>	KUF DIN 40040 ( $\leq 75\%$ rel. humidity, no condensation)
<b>Shock sensitivity:</b>	DIN 40046 IEC68-2-69
<b>EMC:</b>	<ul style="list-style-type: none"><li>● DIN EN 50081 Part 2</li><li>● DIN EN 50082 Part 2</li></ul> 
<b>Electrical connections:</b>	<ul style="list-style-type: none"><li>● Screw-/plug-in terminals, line cross section max. 2.5 mm<sup>2</sup></li><li>● SUB-Min-D (9-pol.) for PROFIBUS (socket)</li></ul>
<b>Class of Protection:</b>	IP 20 of the completely equipped device
<b>Dimensions:</b>	99 x 17.5 x 118.5 mm (h x w x d)
<b>Weight:</b>	85 g
<b>Housing:</b>	Material Polyamid PA 6.6, combustibility class V0 according to UL 94
<b>Assembly:</b>	Modules plugged and locked from the front of the basic housing
<b>Operation position:</b>	vertical

Subject to technical alterations!