Ethernet Fieldbus Coupler RM 204

Safety Instructions

ESD !

- contains electro-statically sensitive components
- Original packing protects against electrostatic discharge (ESD)
- Transporting only in the original packing
- during mounting rules for protection against ESD must be followed

Connections

- Wiring must be conform to local standards (e.g. VDE 0100 in Germany) !
- Input leads must be kept separate from signal and mains leads !
- The protective earth must be connected to the relevant terminal (in the instrument carrier) !
- The cable screening must be connected to the terminal for grounded measurement !
- Usage of twisted and screened input leads prevent stray electric interference !
- Connections must be made according to the connecting diagrams !

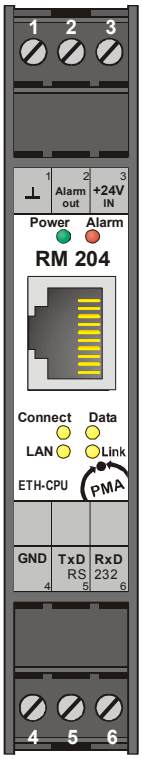
Maintenance / Repair

Instrument needs no particular maintenance.
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.

Fuse tripped:

- Cause must be determined and removed !
- Only fuses of the same type and current rating as the original fuse must be used.
- Using repaired fuses or short-circuiting the fuse socket is inadmissible !

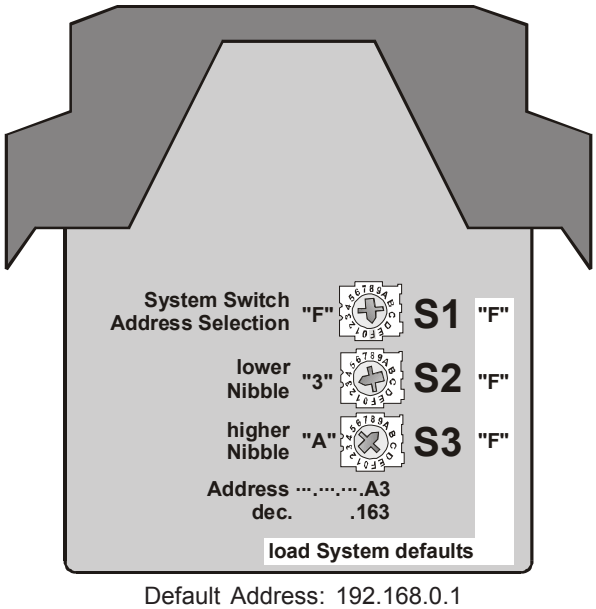
Pin Assignment



Pin	Assignment	
1	GND	Power
2	Alarm Out	
3	Supply +24V	supply
4	GND_RS232	Com
5	TxD(A)	
6	RxD(B)	Interface
Art.-No.	9407-738-20401	

LEDs

LED	Assignment		Meaning
1	Power	green	Power ok
2	Alarm	red	internal errors
3	Connect	yellow	ModBus TCP client connection
4	Data	yellow	communication with client
5	LAN	yellow	send/receive TCP/IP frames
6	Link	yellow	10Base-T connection pulse
LED 1,2 and 3 shine while start procedure			



Default Address: 192.168.0.1

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Technical Data RM 204

Application:	Central unit of a modular Fieldbus system device
Power supply:	+24 V DC (± 10 %), max. power consumption 2.5 W (only RM 204) The module supplies all I/O modules with the required voltages, those max. current consumption is 1.5 A (depending on the amount of used I/O modules).
Microprocessor:	MB90F546 with 16 MHz
Memory:	● 256 kByte Flash-EPROM ● 128 kByte Static RAM ● 8 kByte EEPROM
Network connection:	● Ethernet RJ45 10BaseT according to EEE 802.3 ● TCP/IP protocol ● Modbus TCP - Server via TCP port 502 ● The last byte of the IP-address can be adjusted with rotary BCD switches ● Max. Ethernet- segment length: 100m with Cat5 wire
Protection:	Protection against wrong polarity and overvoltage peaks
LED-Display:	● 1x 'Power' (green): Supply voltage ● 1x 'Alarm' (red): Alarm situations (selectable) ● 1x 'Connect' (yellow): Connection via Port 502 is open ● 1x 'Data' (yellow): Modbus Data transmission ● 1x 'Link' (yellow): Connection detected ● 1x 'LAN' (yellow): Data transmission or collision
Potential separation:	The supply voltage, the net work connection and the logic are galvanically separated from each other. (Isolation 500 V DC).
Ambient temperatur:	● Operation: 0 ... +50 °C ● Storage: -20 ... +70 °C
Climatic Application class:	KUF DIN 40040 (≤ 75% rel. humidity, no condensation)
Shock sensitivity:	DIN 40046 IEC60068-2-6
Electromagnetic compatibility:	● DIN EN 50081 Part 2 CE ● DIN EN 50082 Part 2
Electrical connection:	● screw-/plug-in-terminals, line cross-section max. 2.5 mm¸ ● RJ45 10BaseT for Ethernet (socket)
Class of protection:	IP 20, with the fully equipped device
Dimensions:	99 x 17.5 x 118.5 mm (h x w x d)
Weight:	75 g
Housing:	Material Polyamid PA 6.6, combustibility class V0 according to UL 94
Assembly:	plugged-in and locked in from the front of base module
Usage position:	Vertical

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Subject to technical alterations !