

- Supports up to 120 M-Bus devices per single bus
- Power on the RS-232 communication port is not required
- Galvanic isolation of RS-232 and M-Bus communication ports
- Supports rates of 1200, 2400, 4800, 9600 bps
- Built-in M-Bus short-circuit and over-voltage protection
- 3 diagnostic LEDs
- Detachable terminal blocks
- Mounting on DIN rail
- ABS housing
- 24 months warranty period



RS-232

DIN RAIL

The RM-120 converter module is used in installations where it is necessary to read object parameters from devices that support M-Bus communication (electricity and heat meters, PLCs). The MT-101 or MT-202 telemetry module provides wireless communication with distributed M-Bus nodes using packet-switched GPRS data transmission and SMS or e-mail alerting. The RM-120 can handle up to 120 devices with available M-Bus slave protocol. In addition to the galvanic isolation of communication ports, the system also provides adequate protection against possible short-circuits and over-voltages on the M-Bus side.

Technical parameters:

Rated supply voltage Vz	21,6 – 42 V DC
Maximum current consumption by one M-Bus device	1,5 mA
Maximum number of supported M-Bus devices	120 szt.
RS-232 -> M-bus transmission	0 Vz 1 Vz-12V
M-Bus -> RS-232 transmission	0 0 – 1,5 mA 1 11 – 20 mA
Operating temperature	-20 – 55 °C
Protection degree	IP 20
Dimensions (L x W x H):	35 x 86 x 58 mm
Weight	0,08 kg

Description of the connectors available in RM-120

Connector	Description
+ (MBus)	Positive M-Bus terminal
- (MBus)	Negative M-Bus terminal
PE2	M-Bus ground
- (24-36 V DC)	Negative supply terminal of the RM-120 module
+ (24-36 V DC)	Positive supply terminal of the RM-120 module
TXD	Output terminal of the RS-232 transmitter
RXD	Input terminal of RS-232 receiver
COM	Common terminal of the RS-232 circuit
RTS	Optional signalling of the converter when connected to the COM PC port of (unused when connected to MT module)
PE1	Ground of the RS-232 circuit

Drawings and dimensions (all dimensions in millimeters)

