# RM-120 – M-BUS converter module

- 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.
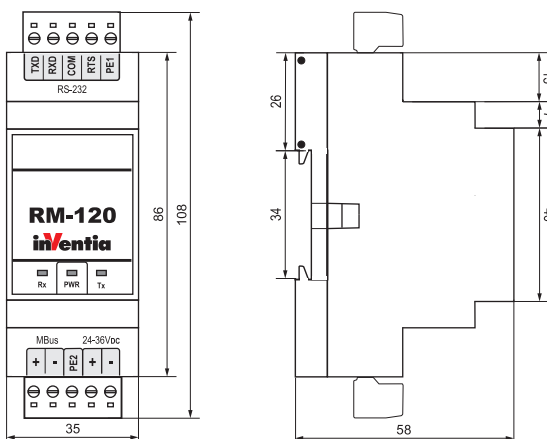
### Technical parameters:

| | |
|---|---|
| Rated supply voltage Vz | 21,6 – 42 VDC |
| 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 | $V_z$ |
|                          1 | $V_z - 12V$ |
| M-Bus -> RS-232 transmission     0 | 0 – 1,5 mA |
|                          1 | 11 – 20 mA |
| Operating temperature | -20 – 55°C |
| Protection degree | IP40 |
| Dimensions (L x W x H): | 35 x 86 x 58 mm |
| Weight | 0,08 kg |

### Description of the connectors available in RM-120 converter module

| Connector | Description |
|---|---|
| + (MBus) | Positive M-Bus terminal |
| – (MBus) | Negative M-Bus terminal |
| PE2 | M-Bus ground |
| – (24-36VDC) | Negative supply terminal of the RM-120 module |
| + (24-36VDC) | 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 dimentions in millimeters)



### Additional info:

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