

S010-MBUS RS232 – M-Bus converter



Summary

S010-MBUS is a multispeed halfduplex interface for conversion between RS232 bus and M-Bus with galvanic separation. The device contains a microcontroller to control the data flow.

Application

- **Integration of M-Bus energy/media meters to IPCx or management station**

Function

The interface acts as a M-Bus master and supply and converter for communication with the driver in a process or management station.

The RS232 bus connects through three screw terminals to a COM port of a process or management station. Only the signals RxD, TxD, and GND are used. The RS232 bus is galvanically separated from all other parts of the device.

At the M-Bus side, six interchangeable screw terminals are available at the upper part of the device. There are no settings nor configurable elements at the device.

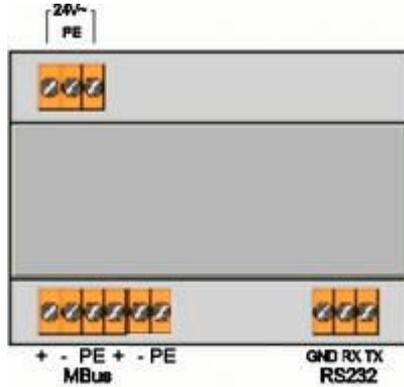
The supply voltage must be 24V to 30V AC. It is necessary to avoid voltage drops as this might influence M-Bus supply voltage, decrease of which may cause communication dropouts.

The driver also contains diagnostic data points (first readout cycle OK, communication failure for each node etc.) which may be used in the application program.

Technical data

Power	24 to 30 V AC
Consumption	ca. 5W + 0.054W*(number of meters)
Temperature	0 ÷ 70°C
Number of M-Bus nodes	max. 60
Communication	asynchronous 300 ... 9600 bit/s
Max. M-Bus length	1200m
Dimensions	95 (l) x 95 (w) x 60 (h)

Terminals and indicators



Cable to IPCx or PC RS232:

Converter	Cannon 9F at COM port
GND	5 (GND)
TX	2 (Rx)
RX	3 (Tx)