RS485/RS232 to M-Bus Converter

Signal Converter

Overview

- Available in two models, supporting either RS485 or RS232 communication interfaces.
- Supports communication with up to 250 M-Bus devices, ideal for large-scale monitoring and control systems.
- Galvanic isolation ensures safe operation by protecting against electrical disturbances.
- Operates on a 220 VAC power supply with built-in overvoltage protection.
- Equipped with LED indicators for overload protection, M-Bus communication, and power status.
- Provides +36V power supply to M-Bus devices, supporting up to 250 loads.
- Compact design with IP20 protection and DIN rail mounting for easy integration into control panels.
- Seamlessly integrates with Advanticsys and third-party devices for flexible deployment.

Characteristics

General

Power supply:	220 Vac ±20%
Overvoltage protection:	>1000V (máx. 5 seg)
Consumption:	<4W

M-Bus line

Mark voltage:	36-40V
Space voltage:	24-27V

Interfaces

RS485: Up to 1.2 km, speed from 300 to 9600 bps
RS232: Up to 15 m, from 300 to 9600bps
M-Bus: Supports up to 250 loads (375 mA)

LED Indication

Overload: Alerts for short circuit on M-Bus
Offline: Indicates when the M-Bus is not loaded (ON)
+36V M-Bus Power Supply: Status of M-Bus power supply (On/Off)
TxD: M-Bus data transmission indicator
RxD: M-Bus data reception indicator

Working conditions

Working temperature:	-25°C to +60°C
Storage temperature:	-40°C to +60°C
Humidity range:	5 to 95% (non-condensing)

Regulatory approvals

Safety:
EN 60950-1:2006++A1:2010+A1:2009+A12:2011
EMC:
EN 55022:2010;
EN 55024:2010;
EN 61000-4-2:2009;
EN 61000-4-3:2006;
EN 61000-4-3:2006/A1:2008;
EN 61000-4-3:2006/A2:2010;
EN 61000-4-4:2004;
EN 61000-4-4:2004/A1:2010;
EN 61000-4-6:2009.

CE

Physical characteristics

Dimensions:	110x75x45 mm
Weight:	170 g
Material:	PC/ABS
Protection type:	IP20
Mounting:	DIN rail compatible

Other features

Made in EU

Ordering code

MODEL	Interface
703.007.	**A**

1 – RS485
2 – RS232

Example: **703.007.1** RS485 to M-Bus Converter
703.007.2 RS232 to M-Bus Converter