

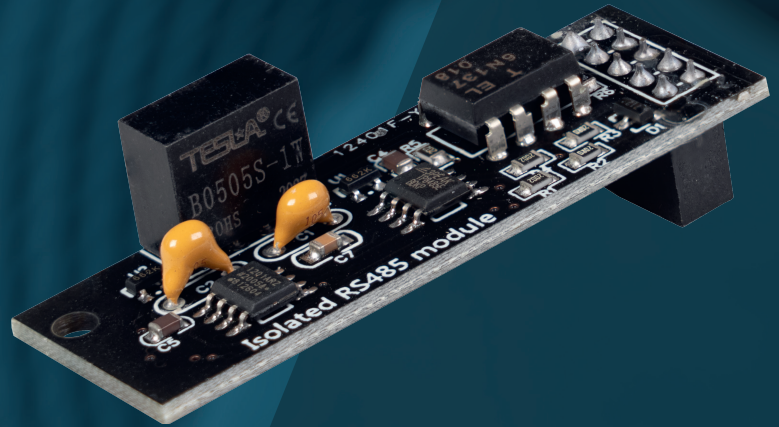
RS485 MODULE FOR JT-DPM8600

RS485 EXTENSION FOR DPM VOLTAGE TRANSDUCERS

JOY-IT

SPECIAL FEATURES

- ✓ Plug & Play plug-in module
- ✓ Electrically isolated RS485
- ✓ Industrial bus-compatible (Modbus RTU)
- ✓ Integrated bus and ESD protection
- ✓ Optimized for DPM8600 series



The TTL-to-RS485 communication module was developed specifically for the DPM8600 series devices and enables simple, reliable integration into industrial communication networks. Thanks to its precise plug-in design, the module is installed directly on the rear of the device and is ready for immediate use. , complex wiring or additional hardware adjustments are not necessary, which significantly reduces integration time and sources of error.

During operation, the module converts the device's internal TTL UART interface into a robust RS-485 interface and supports the widely used Modbus RTU protocol. This allows individual or multiple devices to be easily integrated into higher-level control, monitoring, or automation systems. Even larger networks with many participants can be implemented stably and reliably.

A special feature of the module is the galvanic isolation between the device electronics and the fieldbus. This isolation effectively protects the connected device from ground loops, overvoltages, and electromagnetic interference from the bus environment. This is supplemented by integrated protection mechanisms such as ESD and overvoltage protection, which ensure safe operation even under harsh industrial conditions.

Thanks to its device-specific design, the communication module is optimally matched to the DPM8600 series in terms of electrical, mechanical, and functional characteristics. It represents a professional and reliable solution for integrating measuring and network devices into modern, distributed systems and is ideal for applications in industry, laboratories, development, and automation technology.

ELECTRICAL PROPERTIES

input voltage	DC 4.75 V - 5.25 V
quiescent current	≤ 65 mA
Current consumption (transmission)	≤ 80 mA
isolation	Galvanic isolation between device and bus

INTERFACES & COMMUNICATION

Serial interface (internal)	UART, TTL level, +5 V compatible
RS-485 interface	Industry standard RS-485 with ESD protection
Maximum baud rate	Up to 115,200 bps
TX/RX switch delay	Min. 30 µs / Max. 100 µs
bus participants	Supports ≥ 128 devices in the RS-485 network
communication protocol	Modbus RTU

SYSTEM & BUS PROPERTIES

compatibility	DPM8600 Series
Bus protection	Integrated ESD protection, 600 W surge protection
bus termination	Integrated pull-up/pull-down resistors (20 kΩ)

ADDITIONAL INFORMATION

Weight	6 g
dimensions	43 x 15 x 9 mm
item number	JT-DPM-RS485
customs tariff number	8473302000
EAN	4250236830537