

PSM-ME-RS232/RS485-P Serial Interface Converter

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RS232 to RS485 Converter with electrical isolation

- Convert RS232 to RS422 or RS485
- Transmission speeds up to 115.2 kbps
- Supports full duplex and half duplex
- 3-way electrical isolation

The PSM-ME-RS232/RS485-P bi-directionally converts RS-232 interface signals to the RS-485 2/4-wire and RS-422 standard.

With support for 4-wire balanced full duplex communication, or 2-wire half-duplex, the PSM-ME-RS232/RS485-P is suitable for most applications, including industrial, commercial and any general office computer device. Transmission speeds of 1.2 kbps up to 115.2 kbps can be applied to point-to-point and point-to-multipoint networks.



Use the PSM-ME-RS232/RS485-P in all common bus systems with UART/NRZ data format and character length of 10/11 bits. This is the best “plug and play” solution for converting RS-232 (V.24) to RS-422 (V.11) and RS-485, with electrical isolation.

RS232 to RS485 Converter Features

- RS-422 4-wire for point-to-point operation
- RS-485 2-wire operation, half duplex
- RS-485 4-wire operation, full duplex
- Automatic transmit/receive changeover
- Transmission speed from 1.2 kbps up to 115.2 kbps
- Integrated data indicator for dynamic indication of transmit and receive data
- High-quality 3-way isolation between power supply, V.24 (RS-232), and RS-422/485 for reliable decoupling of the potentials with 1.5 kV
- Integrated surge protection with transient discharge to the DIN rail
- Shipbuilding approval per DNV



PSM-ME-RS232/RS485-P Technical Specifications

Serial interface

Interface 1	V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1
Connection method	D-SUB 9 plug
Transmission length	15 m (shielded twisted pair)
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Pin assignment	DTE/DCE switchover via switch
Protocols supported	transparent protocol
Serial transmission speed	1.2; 2.4; 4.8; 7.2; 9.6; 19.2; 31.25; 38.4; 57.6; 75; 93.75; 115.2 kbps
Interface 2	RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1
Connection method	Pluggable screw connection
Transmission length	1200 m (shielded twisted pair)
Termination resistor	390 Ω 150 Ω 390 Ω (Can be connected)
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	13
Protocols supported	transparent protocol
Serial transmission speed	1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 75; 93.75; 115.2 kbps

