

Interface converter - PSM-ME-RS 232/RS485-P - 2744416

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Interface converter, for converting RS-232 (V.24) to RS-422 (V.11) and RS-485, with electrical isolation, 2 channels, rail-mountable

Why buy this product

- ✓ RS-422 4-wire point-to-point operation
- ✓ RS-485 2-wire operation, half duplex
- ✓ RS-485 4-wire operation, full duplex
- ✓ Automatic RS-485 transmit/receive changeover
- ✓ Transmission speed of 4.8 kbps to 115.2 kbps
- ✓ Integrated data indicator for dynamic indication of transmit and receive data
- ✓ High-quality 3-way isolation between power supply, RS-232, and RS-422/RS-485 for safe decoupling of potentials with 2 kV
- ✓ Integrated surge protection with transient discharge to the DIN rail



Key commercial data

Packing unit	1
Minimum order quantity	1
Catalog page	Page 489 (IF-2011)
GTIN	 4 017918 171780
Custom tariff number	85176200
Country of origin	GERMANY

Technical data

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 male connector
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	13
Serial transmission speed	115.2 kbps

Interface converter - PSM-ME-RS 232/RS485-P - 2744416

Technical data

Serial interface

Interface 2	RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1
Termination resistor	150 Ω can be connected; pull up/down 390 Ω
Transmission length	1200 m (twisted pair)
Connection method	Pluggable screw connection
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	13
Serial transmission speed	115.2 kbps
Interface 3	RS-485 interface in acc. with EIA/TIA-485, DIN 66259-1
Connection method	Pluggable screw connection
Transmission length	1200 m (twisted pair)
Termination resistor	150 Ω can be connected; pull up/down 390 Ω
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section AWG/kcmil max	14
Conductor cross section AWG/kcmil min.	24
Data direction switching	Automatic control or via RTS/CTS
Serial transmission speed	115.2 kbps

Power supply

Nominal supply voltage	24 V AC/DC $\pm$ 20 %
Typical current consumption	85 mA (24 V DC)

General data

Transmission channels	2 (1/1), Rx/D, Tx/D, full duplex
Bit delay	$\leq$ 3 μ s
Bit distortion	$\leq$ 5 %
Width	22.5 mm
Height	99 mm
Depth	118.6 mm
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Electrical isolation	(VCC // V.24 (RS-232) // RS-485)
Test voltage data interfaces	2 kV AC
Test voltage data interface/power supply	2 kV AC
Test voltage data interface/power supply	2 kV
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 50 081-1
Noise immunity	EN 61000-6-2:2005
Net weight	120 g

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General data

Housing material	PA
Color	green
MTBF	923 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
MTBF	179 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D

Classifications

eclass

eCl@ss 4.0	27250312
eCl@ss 4.1	27250312
eCl@ss 5.0	27242208
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208

etim

ETIM 2.0	EC000698
ETIM 3.0	EC000698
ETIM 4.0	EC000698

unspsc

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43201553

Approvals

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UL Recognized / cUL Recognized / GOST / DNV / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus

Approvals submitted

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Approvals

Approval details

UL Recognized 

cUL Recognized 

GOST 

DNV

cULus Recognized 

Accessories

Accessories

Assembly

Electronic housing - ME-SAS - 2853899



Shield connection clamp for printed circuit terminal block

Cable/conductor

Data cable - PSM-KA 9 SUB 25/BB/2METER - 2761059



RS-232 cable, 9-pos. D-SUB female connector 25-pos on D-SUB female connector

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Accessories

Data cable - PSM-KA9SUB9/BB/2METER - 2799474



RS-232 cable, 9-pos. D-SUB female connector on 9-pos. D-SUB female connector, 9-wire, 1:1

Tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

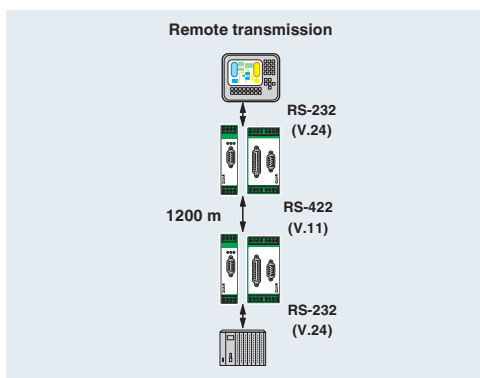
Termination resistor - PSI-TERMINATOR-PB - 2313944



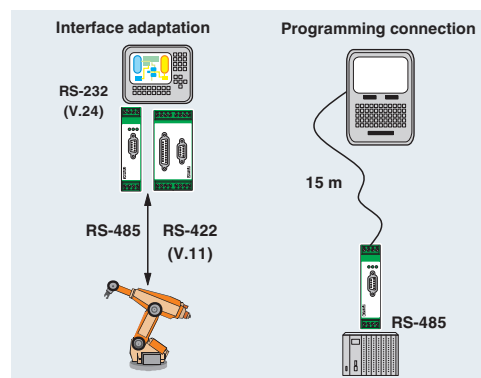
Active termination resistor with redundant voltage supply for PROFIBUS and RS-485 bus systems. Compact design. Electrical isolation between supply and data interface. Bus termination can be switched. Integrated programming interface.

Drawings

Application drawing

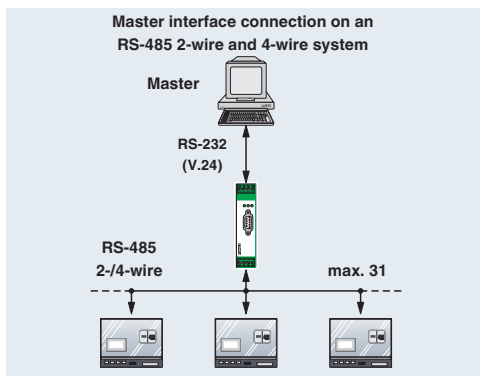


Application drawing

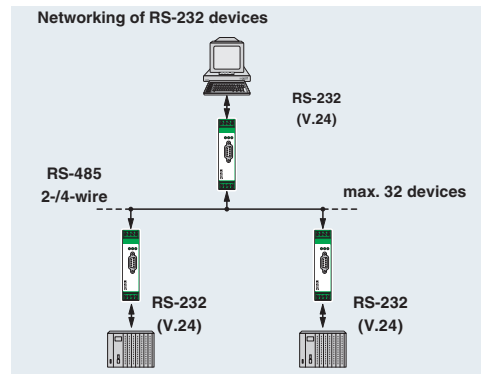


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Application drawing



Application drawing



Circuit diagram

