

Interface converters - GW PN/MODBUS 1E/1DB9 - 1105707

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The GW PN/MODBUS... enables two-way communication between PROFINET and Modbus protocols. Includes one RJ45 port and one D-SUB 9 port.

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	22.5 mm
Height	99 mm
Depth	115 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Altitude	< 2000 m
Degree of protection	IP20
Noise immunity	EN 61000-6-2:2005

General

Electrical isolation	IEC UL 61010-1 (VCC // Ethernet)
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General

Test voltage data interface/data interface	1.5 kV _{rms} (50 Hz, 1 min.)
Test voltage data interface/power supply	1.5 kV _{rms}
	1.5 kV _{rms} (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4
Net weight	110 g
Housing material	PA 6.6
Color	gray
MTBF	92.1 Years (Telcordia standard, 25°C temperature, 50% stress, Environmental Factor = 1.0)
	61.4 Years (Telcordia standard, 40°C temperature, 50% stress, Environmental Factor = 1.5)
Conformance	CE-compliant
UL, USA	UL 61010-1
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D T4A

Power supply

Supply voltage range	10.8 V DC ... 30 V DC (via pluggable COMBICON screw terminal block)
Max. current consumption	60 mA (24 V DC)
Typical current consumption	48 mA (24 V DC)
Conductor cross section flexible max.	2.50 mm ²
Conductor cross section flexible min.	0.20 mm ²
Conductor cross section AWG max.	12
Conductor cross section AWG min.	24

Interfaces

Interface 1	PROFINET, MODBUS TCP
Interface	Ethernet
Connection method	RJ45 jack, shielded
Transmission length	≤ 100 m (shielded twisted pair)
Protocols supported	PROFINET, MODBUS ASCII/RTU/TCP
Auxiliary protocols	ARP, DHCP (Client), PING
Serial transmission speed	10/100 Mbps, auto negotiation
Interface	RS-232
Number of connections	1
Connection method	D-SUB 9 plug
File format/coding	5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity
Transmission length	15 m
Pin assignment	DTE
Data flow control/protocols	Software handshake, Xon/Xoff or hardware handshake RTS/CTS
Serial transmission speed	0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps
Interface	RS-422

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Interfaces

Number of connections	1
Connection method	D-SUB 9 plug
File format/coding	5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity
Transmission length	≤ 1200 m
Termination resistor	120 Ω (configurable)
Pin assignment	2, 3, 5, 7, 8
Serial transmission speed	0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps
Interface	RS-485
Number of connections	1
Connection method	D-SUB 9 plug
File format/coding	5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity
Termination resistor	120 Ω (configurable)
Serial transmission speed	0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps

Function

Management	Web-based management
Status and diagnostic indicators	LEDs: Status, ACT/LNK (Ethernet data traffic)

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2:2005
Standards/regulations	EN 55022, EN 55024
Conformance	CE-compliant
UL, USA	UL 61010-1
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D T4A
Noxious gas test	ISA-S71.04-1985 G3 Harsh Group A
ATEX	DEMKO 18ATEX 2026X: II 3 G Ex ec IIC T4 Gc
IECEX	IECEX UL 18.0023X Ex ec IIC T4 Gc

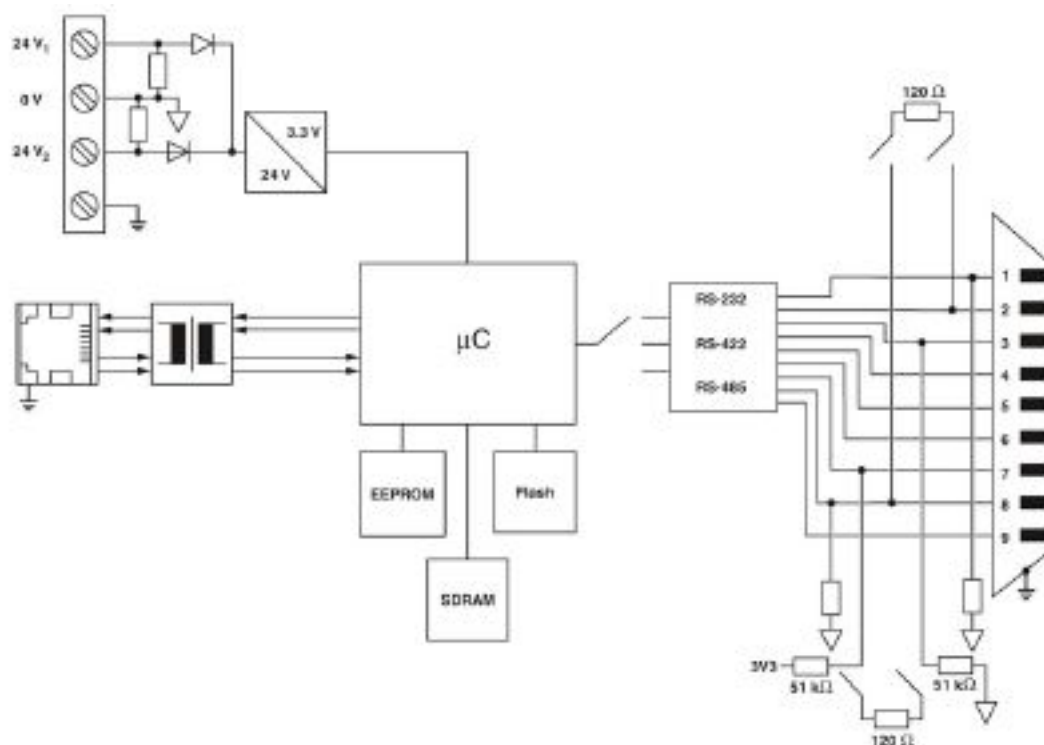
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Drawings

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Block diagram



Classifications

eCl@ss

eCl@ss 10.0.1	19179290
eCl@ss 9.0	19179290

ETIM

ETIM 5.0	EC000310
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