

PROFINET IO to Modbus Gateway ICDM-RX/PN1-DB9/RJ45-PM



- Panel mounting and DB9 serial connector
- PROFINET IO to and from Modbus TCP, Modbus ASCII, Modbus RTU and Modbus to Modbus communication
- RS-232/422/485 software selectable interfaces
- Advanced Modbus gateway and routing capabilities
- Data Mapping sub-system and a built-in Modbus concentrator
- Web-based configuration

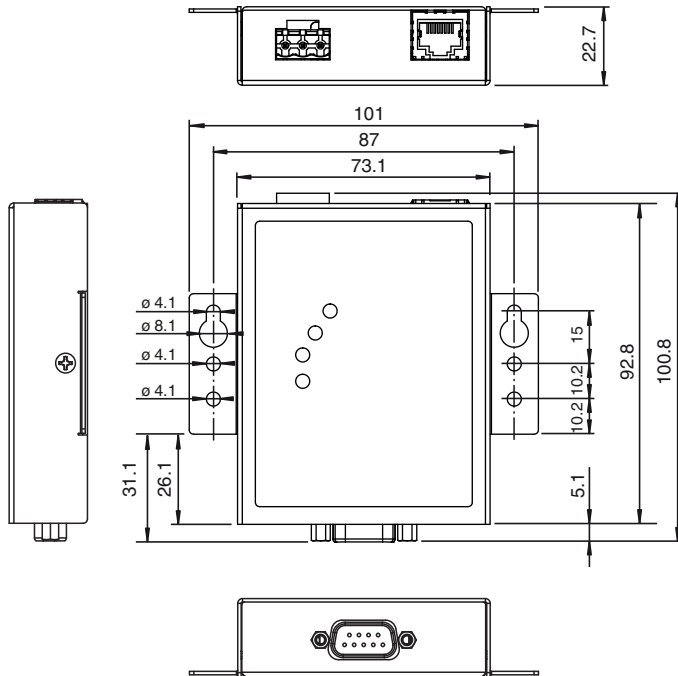
PROFINET IO to Modbus Gateway 1-port panel mount DB9



Function

The ICDM-RX/EN1 gateway enables the connection of serial devices (RS-232 / RS-422 / RS-485) such as barcode scanners, RFID readers and weigh scales to both PROFINET IO and Modbus networks. It combines an PROFINET IO interface with a Modbus gateway functionality and a built-in programmable data mapping sub-system, that ties everything together and doubles as a Modbus concentrator. The embedded web pages provide extensive diagnostics, intuitive and flexible configuration options, secure interfaces and numerous maintenance options. The result is a highly flexible gateway that allows full integration of PROFINET IO controllers into simple or complex Modbus networks. PROFINET IO controllers such as PLCs, HMIs, SCADAs and OPC servers can communicate to almost any Modbus master or slave, either locally or remotely.

Dimensions



Technical Data

General specifications

UL File Number E185802

Functional safety related parameters

MTBF 48.4 a

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

Indicators/operating means		
LED indication		see manual
Electrical specifications		
Rated operating voltage	U _e	5 ... 30 V DC
Nominal voltage		24 V DC
Interface		
Interface type		Software selectable interfaces: RS-232 , RS-422 , RS-485 (2 and 4-wire)
Physical		1 x DB9
Protocol		MODBUS
Supported baud rates		300 bps to 230Kbps
Interface 1		
Interface type		Industrial Ethernet
Physical		1 x RJ45
Protocol		PROFINET IO
Additional protocols		ARP, BOOTP, DHCP/RARP, HTTP, HTTPS, SSH, SSL/TLS, ICMP, RFC 1006 (ISO over TCP), SNMP (MIB-II), TCP/IP & UDP socket services, Telnet, and TFTP, and supports IP multicast data transmission
Transfer rate		10/100 Mbps
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 55022:2010 , AS/NZS CISPR 22; 2009 + A1: 2010 , EN 61000-6-4 , EN 55032
Standard conformity		
Electrical safety		CSA C22.2 No. 60950 / CSA C22.2 No. 60950/UL60950
Emitted interference		AS/NZS EN 55022, FCC Part 15 Subpart B, ICES-003, CISPR 22
Noise immunity		EN 61000-6-2 , EN 55024
Ambient conditions		
Ambient temperature		-40 ... 75 °C (-40 ... 167 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		max. 95 %
Altitude		0 ... 3048 m
Mechanical specifications		
Housing length		91.4 mm
Housing width		20.3 mm
Housing height		71.1 mm
Degree of protection		IP20
Connection		Power Supply: pluggable screw terminal Fieldbus: 1 x RJ45 Inputs/outputs: 1 x DB9
Material		
Housing		stainless steel
Mass		220g
Construction type		Cabinet module
Mounting		panel mount

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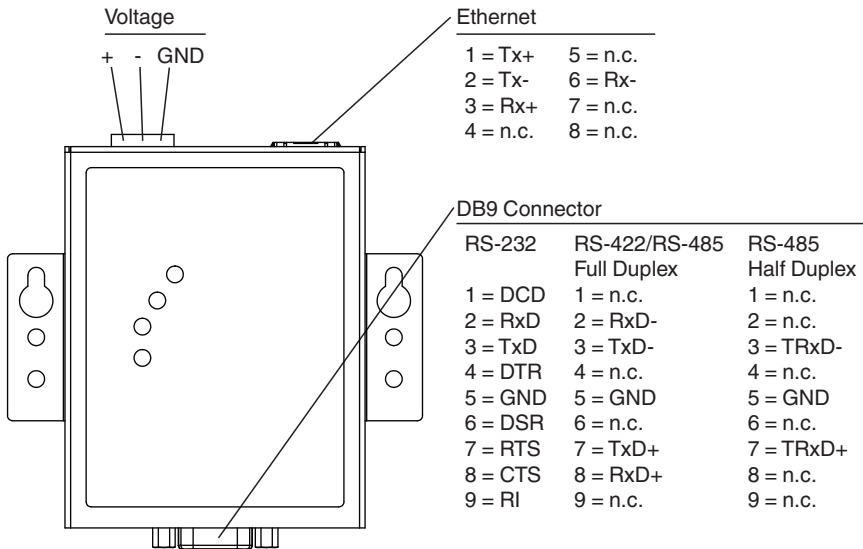
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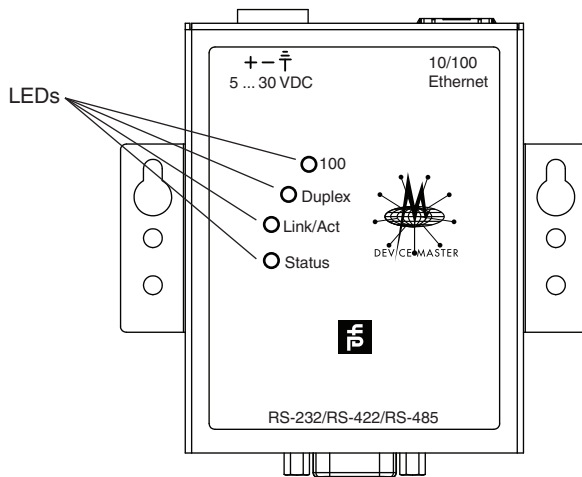
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Connection



Assembly



Accessories

	V45-G-C5-GN1M-PUR-E1S	Ethernet bus cable male cordset single-ended RJ45, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V45-G-C5-GN3M-PUR-E1S	Ethernet bus cable male cordset single-ended RJ45, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V45-G-C5-GN10M-PUR-E1S	Ethernet bus cable male cordset single-ended RJ45, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V45-G-C5-GN1M-PUR-E1S-V45-G	Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V45-G-C5-GN3M-PUR-E1S-V45-G	Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V45-G-C5-GN10M-PUR-E1S-V45-G	Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable
	V45-G-C5-GN20M-PUR-E1S-V45-G	Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable

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