

# EtherNet/IP to Modbus Gateway

## ICDM-RX/EN1-DB9/RJ45-PM



- Panel mounting and DB9 serial connector
- EtherNet/IP to Modbus TCP, Modbus TCP to EtherNet/IP, and Modbus to Modbus communications
- 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

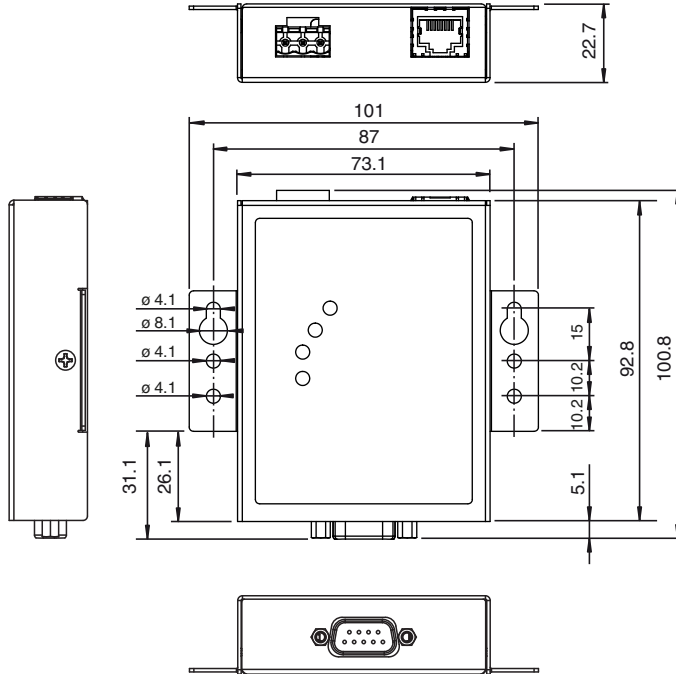
EtherNet/IP to Modbus Gateway 1-port panel mount DB9



### 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 both EtherNet/IP and Modbus networks. It combines an EtherNet/IP 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 EtherNet/IP controllers into simple or complex Modbus networks. EtherNet/IP controllers such as PLCs, HMIs, SCADAs and OPC servers can communicate to almost any Modbus gateway or client, either locally or remotely.

### Dimensions



### Technical Data

#### General specifications

UL File Number	E185802
MTBF	48.4 a

#### Indicators/operating means

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

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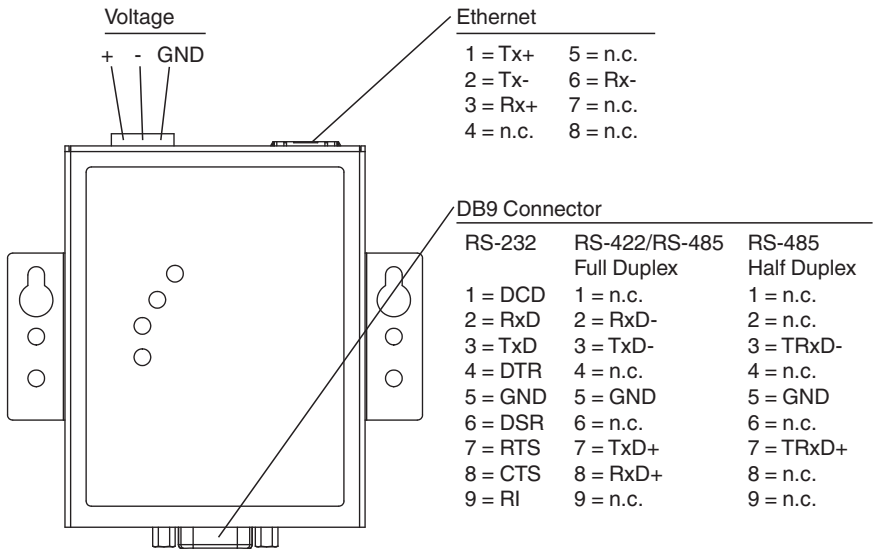
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## Technical Data

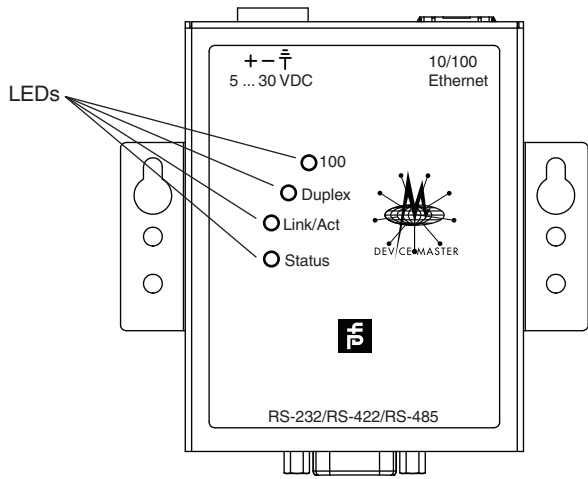
LED indication		see manual
<b>Electrical specifications</b>		
Rated operating voltage	U <sub>e</sub>	5 ... 30 V DC
Nominal voltage		24 V DC
<b>Interface</b>		
Interface type		Software selectable interfaces: RS-232 , RS-422 , RS-485 (2 and 4-wire)
Physical		1 x DB9
Protocol		MODBUS RTU
Supported baud rates		300 bps to 230Kbps
<b>Interface 1</b>		
Interface type		Industrial Ethernet
Physical		1 x RJ45
Protocol		EtherNet/IP
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
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61000-6-2:2005 , EN 61000-6-4:2007 + A1:2011
RoHS		EN IEC 63000:2018
<b>Standard conformity</b>		
Electrical safety		CSA C22.2 No. 60950 / CSA C22.2 No. 60950/UL60950
Emitted interference		EN 61000-6-4, EN 55032, FCC Part 15 Subpart B, ICES-003, AS/NZS CISPR 32
Noise immunity		EN 61000-6-2
<b>Ambient conditions</b>		
Ambient temperature		-40 ... 75 °C (-40 ... 167 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		max. 95 %
Altitude		0 ... 3048 m
<b>Mechanical specifications</b>		
Degree of protection		IP20
Connection		Power Supply: pluggable screw terminal Fieldbus: 1 x RJ45 Inputs/outputs: 1 x DB9
<b>Material</b>		
Housing		stainless steel
Mass		220g
<b>Dimensions</b>		
Height		71.1 mm
Width		20.3 mm
Length		91.4 mm
Construction type		Cabinet module
Mounting		panel mount

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Connection



Indication



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