



EtherNet/IP to Modbus Gateway ICDM-RX/EN1-2ST/RJ45-DIN

- DIN-rail mounting and screw terminal connectors
- EtherNet/IP to Modbus TCP, Modbus TCP to EtherNet/IP, and Modbus to Modbus communications
- Advanced Modbus gateway and routing capabilities
- Data Mapping sub-system and a built-in Modbus concentrator
- Web-based configuration
- RS-232/422/485 software selectable interfaces
- NEMA TS2 Certified

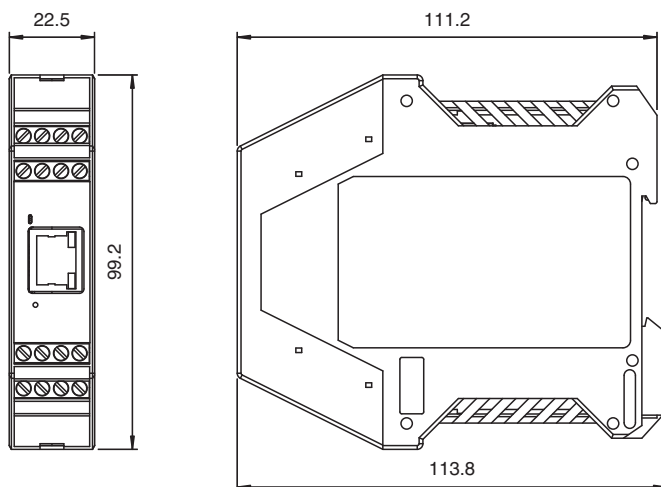
EtherNet/IP to Modbus Gateway 2-port DIN Screw Terminal



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	58.6 a

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		2 x Screw Terminal
Protocol		MODBUS RTU

Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 70114036_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

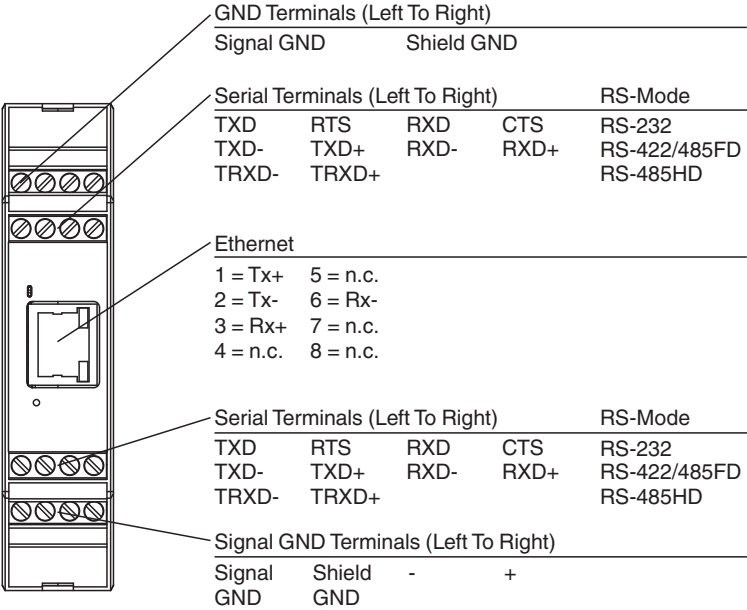
PEPPERL+FUCHS

Technical Data

Supported baud rates	300 bps to 230Kbps
Interface 1	
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
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2:2005 , EN 610006-4:2007 , EN 610006-4/A1:2011
RoHS	EN IEC 63000:2018
Standard conformity	
Degree of protection	NEMA TS2
Electrical safety	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 , 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	
Degree of protection	IP20
Connection	Power Supply: screw terminals Fieldbus: 1 x RJ45 Inputs/outputs: 2 x Screw Terminal
Material	
Housing	Polyamide, UL94V-0
Mass	130.4g
Dimensions	
Height	99 mm
Width	22.6 mm
Length	111 mm
Construction type	Cabinet module
Mounting	DIN mounting rail

Release date: 2024-04-25 Date of issue: 2024-04-25 Filename: 70114036_eng.pdf

Connection



Assembly

