Modbus Gateway

ICDM-RX/MOD-2ST/RJ45-DIN

- DIN-rail mounting and screw terminal connectors
- Pure Modbus, multiple Modbus server and client types, remote, local, and private devices
- Web-based configuration
- RS-232/422/485 software selectable interfaces
- NEMA TS2 Certified

Modbus Gateway 2-port DIN rail Screw Terminal

Function

Flexible, versatile, and highly configurable, the DeviceMaster Modbus Gateway provides unmatched connectivity for a vast array of Modbus implementations. Four unique Modbus firmware applications are available for download from the Modbus product web page and are easily loaded on the Gateway. Whether your Modbus device is Modbus/TCP, Modbus/RTU or Modbus/ASCII serial, is local or remote; or whether your Raw/ASCII device is connected via serial or Ethernet TCP/IP, the Gateways deliver a complete solution for integrating Modbus devices across networks and IIOT applicatione

Modbus Router Firmware
Modbus Router is the default firmware that is preloaded on the Gateway and provides innovative network-wide Modbus connectivity between a broad variety of Modbus clients and local and remote Modbus servers. Advanced features include client-client communication, private serial bus connectivity, write protection, and device ID aliasing. With simplified configuration pages and advanced routing, Modbus Router provides unmatched Modbus connectivity.

Modbus/MQTT Firmware
Modbus/MQTT Router firmware provides all of the innovative capabilities of Modbus Router plus the addition of MQTT and SparkPlug B for delivering data to enterprise-wide cloud and IOT applications.
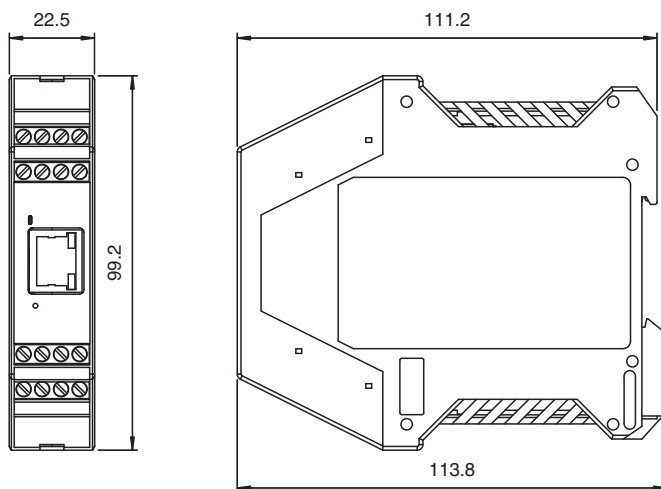
Modbus/TCP Firmware
Modbus/TCP firmware is the original DeviceMaster Modbus application and is designed to provide great flexibility for connecting both Modbus serial servers and Raw/ASCII devices to a variety of Modbus controllers and applications. Advanced features like Raw/ASCII filtering, command/response mode, peer-to-peer Modbus communications, and simultaneous connections to multiple Modbus controllers and/or Ethernet TCP/IP applications make the Modbus/TCP firmware the industry leader for Modbus to Raw/ASCII gateways.

Modbus Server Firmware
Modbus Server firmware provides enhanced connectivity for OPC servers and applications that require Modbus/RTU communication from Ethernet TCP/IP or COM ports directly to serial ports. While standard gateways provide connectivity for only one application per serial port, Modbus Server provides connectivity for up to six applications per serial port.

Dimensions

22.5   111.2   99.2   113.8

Technical Data

General specifications

UL File Number	E185802

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

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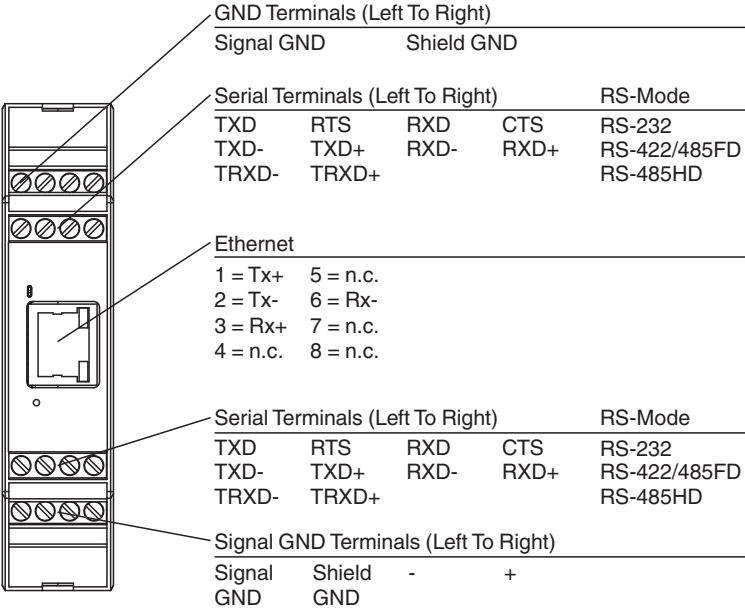Germany: +49 621 776 1111
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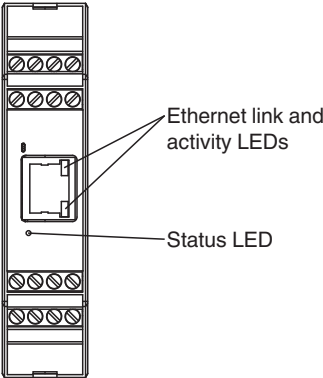Singapore: +65 6779 9091
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Technical Data

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
Supported baud rates		300 bps to 230Kbps
Interface 1		
Interface type		Industrial Ethernet
Physical		1 x RJ45
Protocol		MODBUS TCP/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

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

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Connection

GND Terminals (Left To Right)

Signal GND	Shield GND

Serial Terminals (Left To Right)				RS-Mode
TXD	RTS	RXD	CTS	RS-232
TXD-	TXD+	RXD-	RXD+	RS-422/485FD
TRXD-	TRXD+			RS-485HD

Ethernet

1 = Tx+	5 = n.c.
2 = Tx-	6 = Rx-
3 = Rx+	7 = n.c.
4 = n.c.	8 = n.c.

Serial Terminals (Left To Right)				RS-Mode
TXD	RTS	RXD	CTS	RS-232
TXD-	TXD+	RXD-	RXD+	RS-422/485FD
TRXD-	TRXD+			RS-485HD

Signal GND Terminals (Left To Right)

Signal GND	Shield GND	-	+

Assembly

Ethernet link and activity LEDs

Status LED

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