

## Modbus Gateway

### ICDM-RX/MOD-4DB9/2RJ45-DIN

- DIN-rail mounting and DB9 serial connector
- Pure Modbus, multiple Modbus server and client types, remote, local, and private devices
- RS-232/422/485 software selectable interfaces
- Web-based configuration
- NEMA TS2 Certified

#### Modbus Gateway 4-port DIN Rail DB9



### 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 applications.

#### 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.

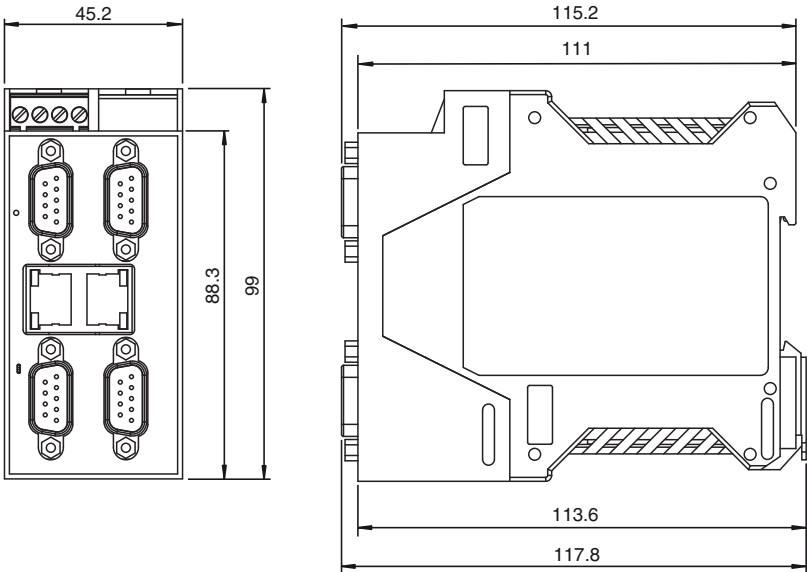
#### Modbus/TCP Firmware

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



Technical Data

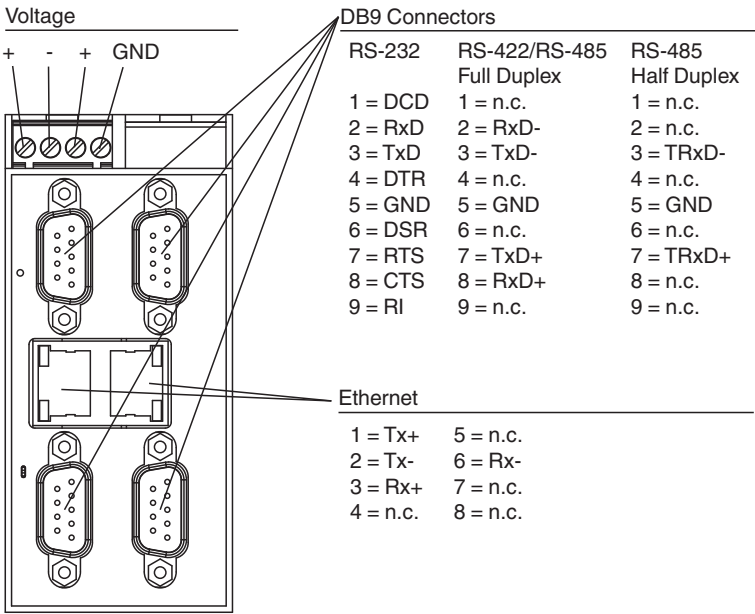
|                               |                |                                                                                                                                                                                            |
|-------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General specifications        |                |                                                                                                                                                                                            |
| UL File Number                |                | E360395                                                                                                                                                                                    |
| MTBF                          |                | 42.3 a                                                                                                                                                                                     |
| Indicators/operating means    |                |                                                                                                                                                                                            |
| LED indication                |                | see manual                                                                                                                                                                                 |
| Electrical specifications     |                |                                                                                                                                                                                            |
| Rated operating voltage       | U <sub>e</sub> | 5 ... 30 V DC                                                                                                                                                                              |
| Nominal voltage               | U <sub>N</sub> | 24 V DC                                                                                                                                                                                    |
| Interface                     |                |                                                                                                                                                                                            |
| Interface type                |                | Software selectable interfaces: RS-232 , RS-422 , RS-485 (2 and 4-wire)                                                                                                                    |
| Physical                      |                | 4 x DB9                                                                                                                                                                                    |
| Protocol                      |                | Modbus/ASCII<br>Modbus/RTU<br>Raw/ASCII                                                                                                                                                    |
| Supported baud rates          |                | 300 bps to 230Kbps                                                                                                                                                                         |
| Interface 1                   |                |                                                                                                                                                                                            |
| Interface type                |                | Industrial Ethernet                                                                                                                                                                        |
| Physical                      |                | 2 x RJ45                                                                                                                                                                                   |
| Protocol                      |                | MODBUS TCP/IP<br>MQTT + Sparkplug B                                                                                                                                                        |
| 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                                                                                                                                                                                   |

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Technical Data

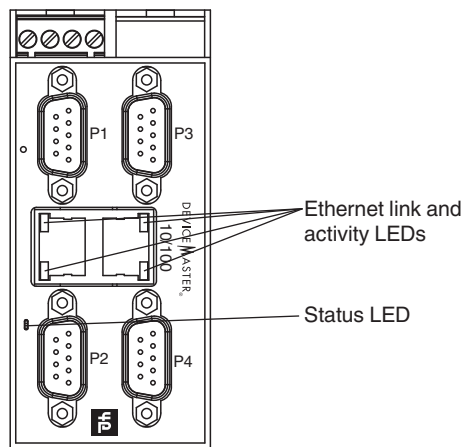
|                                  |                                                                                     |                                                                                |
|----------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Electrical safety                | CSA C22.2 No. 61010-1-12 / CSA C22.2 No. 61010-1-201<br>UL 61010-1 / UL 61010-1-201 |                                                                                |
| 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: screw terminals<br>Fieldbus: 2 x RJ45<br>Inputs/outputs: 4 x DB9 |
| Material                         |                                                                                     |                                                                                |
| Housing                          |                                                                                     | Polyamide, UL94V-0                                                             |
| Mass                             |                                                                                     | 204g                                                                           |
| <b>Dimensions</b>                |                                                                                     |                                                                                |
| Height                           |                                                                                     | 99.1 mm                                                                        |
| Width                            |                                                                                     | 45.7 mm                                                                        |
| Length                           |                                                                                     | 116.8 mm                                                                       |
| Construction type                |                                                                                     | Cabinet module                                                                 |
| Mounting                         |                                                                                     | DIN mounting rail                                                              |

Connection



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Assembly



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