



## MODBUS gateway ICDM-RX/MOD-2ST/RJ45-DIN

- DIN-rail mounting and screw terminal connectors
- Pure Modbus, multiple Modbus master and slave 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

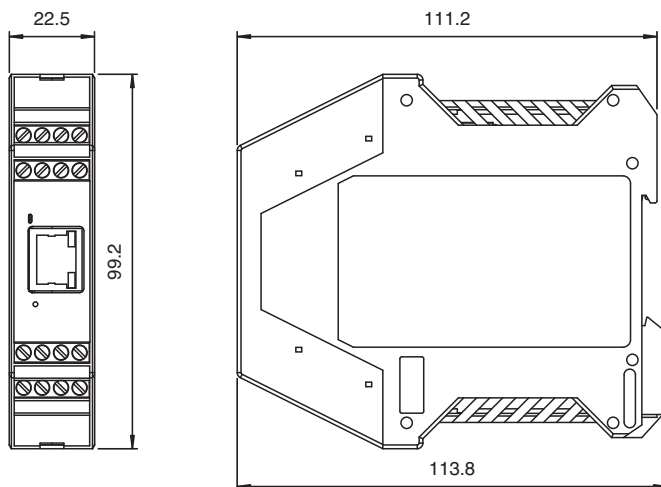


### Function

The ICDM-RX/MOD product family provides an innovative network-wide Modbus connectivity from a wide variety of Modbus masters to a wide variety of local and remote Modbus slaves. Advanced features include master-to-master communication, private serial bus connectivity, write protection, and device ID aliasing. With simplified configuration pages and advanced routing, it provides unmatched Modbus connectivity. The integrated webserver enables complete configuration of all module parameters like serial interface, baud rate, data bits, stop bits, or flow control.

Products are available in different versions for DB9 or screw terminal connection.

### Dimensions



### Technical Data

#### General specifications

|                |         |
|----------------|---------|
| UL File Number | E185802 |
|----------------|---------|

#### Functional safety related parameters

|      |        |
|------|--------|
| 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) |
|----------------|-------------------------------------------------------------------------|

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

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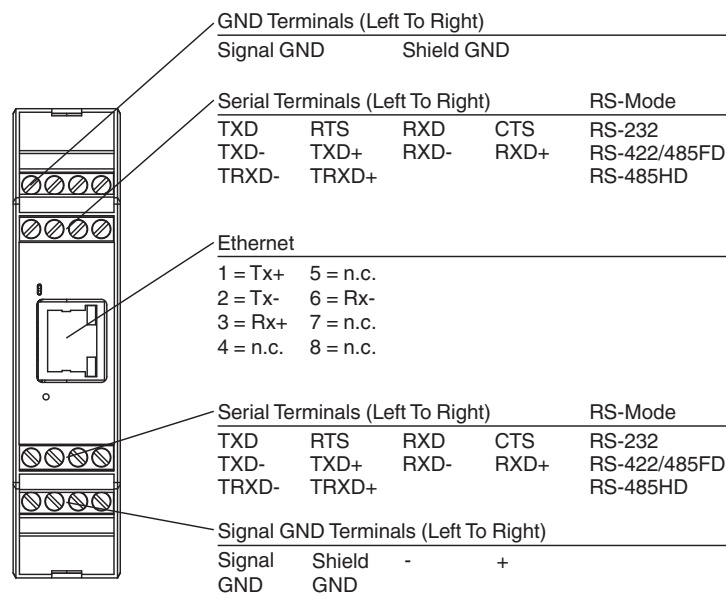
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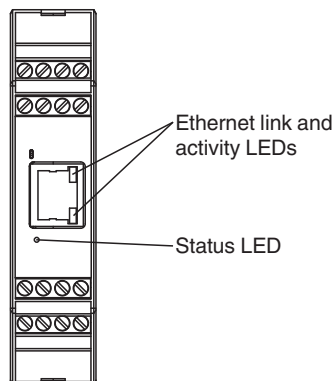
## Technical Data

|                                  |                                                                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical                         | 2 x Screw Terminal                                                                                                                                                                          |
| Protocol                         | MODBUS RTU                                                                                                                                                                                  |
| Supported baud rates             | 300 bps to 230Kbps                                                                                                                                                                          |
| <b>Interface 1</b>               |                                                                                                                                                                                             |
| 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                                                                                                                                                                                 |
| <b>Directive conformity</b>      |                                                                                                                                                                                             |
| 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                                                                                                                                                                           |
| <b>Standard conformity</b>       |                                                                                                                                                                                             |
| 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                                                                                                                                                                     |
| <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> |                                                                                                                                                                                             |
| Housing length                   | 111 mm                                                                                                                                                                                      |
| Housing width                    | 22.6 mm                                                                                                                                                                                     |
| Housing height                   | 99 mm                                                                                                                                                                                       |
| Degree of protection             | IP20                                                                                                                                                                                        |
| Connection                       | Power Supply: screw terminals<br>Fieldbus: 1 x RJ45<br>Inputs/outputs: 2 x Screw Terminal                                                                                                   |
| Material                         |                                                                                                                                                                                             |
| Housing                          | Polyamide, UL94V-0                                                                                                                                                                          |
| Mass                             | 130.4g                                                                                                                                                                                      |
| Construction type                | Cabinet module                                                                                                                                                                              |
| Mounting                         | DIN mounting rail                                                                                                                                                                           |

## Connection



## Assembly



## Accessories

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

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Accessories

|                                                                                   |                                     |                                                                                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|  | <b>V45-G-C5-GN20M-PUR-E1S-V45-G</b> | Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|

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