



Communication module Profibus DP Master for XV-4...

**Part no.** COM-DPM-MC2  
**Catalog No.** 139853  
**EL-Nummer (Norway)** 4560856

**Delivery program**

|                     |  |                                  |
|---------------------|--|----------------------------------|
| Accessories         |  | Communication modules for XV4... |
| Description         |  | Log board                        |
| Supported protocols |  | Profibus DP-Master (12 MBaud)    |

**Technical data**

**Power supply**

|                          |  |              |
|--------------------------|--|--------------|
| Note on heat dissipation |  | not relevant |
|--------------------------|--|--------------|

**Environmental conditions**

|                                    |    |  |      |
|------------------------------------|----|--|------|
| Temperature                        |    |  |      |
| Operating ambient temperature min. | °C |  | 0    |
| Operating ambient temperature max. | °C |  | + 55 |

**Design verification as per IEC/EN 61439**

|                                                                                                                        |            |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |            |    |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | $I_n$      | A  | 0                                                                                                                                |
| Heat dissipation per pole, current-dependent                                                                           | $P_{vid}$  | W  | 0                                                                                                                                |
| Equipment heat dissipation, current-dependent                                                                          | $P_{vid}$  | W  | 0                                                                                                                                |
| Static heat dissipation, non-current-dependent                                                                         | $P_{vs}$   | W  | 0                                                                                                                                |
| Heat dissipation capacity                                                                                              | $P_{diss}$ | W  | 0                                                                                                                                |
| Operating ambient temperature min.                                                                                     |            | °C | 0                                                                                                                                |
| Operating ambient temperature max.                                                                                     |            | °C | 55                                                                                                                               |
| IEC/EN 61439 design verification                                                                                       |            |    |                                                                                                                                  |
| 10.2 Strength of materials and parts                                                                                   |            |    |                                                                                                                                  |
| 10.2.2 Corrosion resistance                                                                                            |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.2.3.1 Verification of thermal stability of enclosures                                                               |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat                                             |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                                                       |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.2.5 Lifting                                                                                                         |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.2.6 Mechanical impact                                                                                               |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.2.7 Inscriptions                                                                                                    |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.3 Degree of protection of ASSEMBLIES                                                                                |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.4 Clearances and creepage distances                                                                                 |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Meets the product standard's requirements.                                                                                       |
| 10.5 Protection against electric shock                                                                                 |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.6 Incorporation of switching devices and components                                                                 |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.7 Internal electrical circuits and connections                                                                      |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                                                                           |
| 10.8 Connections for external conductors                                                                               |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                                                                           |
| 10.9 Insulation properties                                                                                             |            |    |                                                                                                                                  |
| 10.9.2 Power-frequency electric strength                                                                               |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                                                                           |
| 10.9.3 Impulse withstand voltage                                                                                       |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                                                                           |
| 10.9.4 Testing of enclosures made of insulating material                                                               |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                                                                           |
| 10.10 Temperature rise                                                                                                 |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating                                                                                             |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                                                                           |
| 10.12 Electromagnetic compatibility                                                                                    |            |    |                                                                                                                                  |
|                                                                                                                        |            |    | Is the panel builder's responsibility.                                                                                           |

## Technical data ETIM 7.0

| PLC's (EG000024) / PLC communication module (EC001423)                                                                                                                       |        |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS communication module (ecl@ss10.0.1-27-24-22-08 [AKE531014]) |        |        |
| Number of HW-interfaces industrial Ethernet                                                                                                                                  |        | 0      |
| Number of interfaces PROFINET                                                                                                                                                |        | 0      |
| Number of HW-interfaces RS-232                                                                                                                                               |        | 0      |
| Number of HW-interfaces RS-422                                                                                                                                               |        | 0      |
| Number of HW-interfaces RS-485                                                                                                                                               |        | 1      |
| Number of HW-interfaces serial TTY                                                                                                                                           |        | 0      |
| Number of HW-interfaces USB                                                                                                                                                  |        | 0      |
| Number of HW-interfaces parallel                                                                                                                                             |        | 0      |
| Number of HW-interfaces Wireless                                                                                                                                             |        | 0      |
| Number of HW-interfaces other                                                                                                                                                |        | 0      |
| With optical interface                                                                                                                                                       |        | No     |
| Supporting protocol for TCP/IP                                                                                                                                               |        | No     |
| Supporting protocol for PROFIBUS                                                                                                                                             |        | Yes    |
| Supporting protocol for CAN                                                                                                                                                  |        | No     |
| Supporting protocol for INTERBUS                                                                                                                                             |        | No     |
| Supporting protocol for ASI                                                                                                                                                  |        | No     |
| Supporting protocol for KNX                                                                                                                                                  |        | No     |
| Supporting protocol for MODBUS                                                                                                                                               |        | No     |
| Supporting protocol for Data-Highway                                                                                                                                         |        | No     |
| Supporting protocol for DeviceNet                                                                                                                                            |        | No     |
| Supporting protocol for SUCONET                                                                                                                                              |        | No     |
| Supporting protocol for LON                                                                                                                                                  |        | No     |
| Supporting protocol for PROFINET IO                                                                                                                                          |        | No     |
| Supporting protocol for PROFINET CBA                                                                                                                                         |        | No     |
| Supporting protocol for SERCOS                                                                                                                                               |        | No     |
| Supporting protocol for Foundation Fieldbus                                                                                                                                  |        | No     |
| Supporting protocol for EtherNet/IP                                                                                                                                          |        | No     |
| Supporting protocol for AS-Interface Safety at Work                                                                                                                          |        | No     |
| Supporting protocol for DeviceNet Safety                                                                                                                                     |        | No     |
| Supporting protocol for INTERBUS-Safety                                                                                                                                      |        | No     |
| Supporting protocol for PROFIsafe                                                                                                                                            |        | No     |
| Supporting protocol for SafetyBUS p                                                                                                                                          |        | No     |
| Supporting protocol for other bus systems                                                                                                                                    |        | No     |
| Radio standard Bluetooth                                                                                                                                                     |        | No     |
| Radio standard WLAN 802.11                                                                                                                                                   |        | No     |
| Radio standard GPRS                                                                                                                                                          |        | No     |
| Radio standard GSM                                                                                                                                                           |        | No     |
| Radio standard UMTS                                                                                                                                                          |        | No     |
| IO link master                                                                                                                                                               |        | No     |
| Redundancy                                                                                                                                                                   |        | No     |
| Type of data transmission                                                                                                                                                    |        | Serial |
| Transmission rate                                                                                                                                                            | kBit/s | 12000  |
| With potential separation                                                                                                                                                    |        | Yes    |
| Category according to EN 954-1                                                                                                                                               |        |        |
| SIL according to IEC 61508                                                                                                                                                   |        | None   |
| Suitable for safety functions                                                                                                                                                |        | No     |
| Performance level acc. EN ISO 13849-1                                                                                                                                        |        | None   |
| Appendant operation agent (Ex ia)                                                                                                                                            |        | No     |
| Appendant operation agent (Ex ib)                                                                                                                                            |        | No     |
| Explosion safety category for gas                                                                                                                                            |        | None   |

|                                    |    |                                  |
|------------------------------------|----|----------------------------------|
| Explosion safety category for dust |    | ATEX dust-ex-protection, Cat. 3D |
| Width                              | mm | 110                              |
| Height                             | mm | 20                               |
| Depth                              | mm | 140                              |

## Approvals

|                                      |  |                                                                |
|--------------------------------------|--|----------------------------------------------------------------|
| Product Standards                    |  | UL 60950-01; CSA-C22.2 No. 60950-1; IEC/EN 61131-2; CE marking |
| UL File No.                          |  | Refer to main component information                            |
| UL Category Control No.              |  | NWGQ2, NWGQ8                                                   |
| CSA File No.                         |  | Refer to main component information                            |
| CSA Class No.                        |  | –                                                              |
| North America Certification          |  | UL recognized, certified by UL for use in Canada               |
| Specially designed for North America |  | No                                                             |
| Suitable for                         |  | Analog to basic device                                         |
| Current Limiting Circuit-Breaker     |  | No                                                             |

## Additional product information (links)

|                                                        |                                                                                                                                                                                   |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IL04802015Z Communication Module DPM-MC2</b>        |                                                                                                                                                                                   |
| IL04802015Z Communication Module DPM-MC2               | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL04802015Z2018_02.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL04802015Z2018_02.pdf</a> |
| <b>Communications module DPM-MC2 MN04802028Z</b>       |                                                                                                                                                                                   |
| Kommunikationsmodul DPM-MC2<br>MN04802028Z - Deutsch   | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04802028Z_DE.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04802028Z_DE.pdf</a>                   |
| Communications module DPM-MC2<br>MN04802028Z - English | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04802028Z_EN.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN04802028Z_EN.pdf</a>                   |