



ECO gateway for XI/ON I/O system, PROFIBUS DP

Part no. XNE-GWBR-PBDP
Catalog No. 140045
EL-Nummer (Norway) 4520001

Delivery program

| | | | |
|--|--|--|---|
| Function | | | XI/ON ECO gateways |
| Connection technique | | | Push-in spring-cage terminal |
| Function | | | XNE-Gateway with integrated supply |
| Short Description | | | supports up to 48 disc-type modules (XN, XNE) Address set with DIP switch Address range: 1 – 125 (dec.) |
| Field bus connection | | | PROFIBUS-DP (DPV0/DPV1 protocol) |
| Terminal capacity (field bus/supply voltage) | | | Spring-cage terminals |
| Service interface | | | PS/2 socket |
| Data transfer rate | | | 9.6 Kbit/s to 12 Mbit/s |
| Instructions Bus refreshing module is already integrated. | | | |
| Information about equipment supplied The delivery package for all gateways includes: 2 x end bracket XN-WEW-32/2-SW, 1 x end plate XN-ABPL | | | |

Technical data

General

| | | | |
|---|--|-----|---|
| Standards | | | EN 61000-6-2 EN 61000-6-4 EN 61131-2 |
| Approvals | | | CE, cULus EAC |
| Potential isolation | | | Yes, through optocoupler |
| Ambient temperature | | °C | 0 - +55 |
| Storage | θ | °C | -25 - +85 |
| Relative humidity | | | 5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C) |
| Harmful gases | | ppm | SO ₂ : 10 (rel. humidity < 75%, no condensation) H ₂ S: 1.0 (rel. humidity < 75 %,no condensation) |
| Vibration | | | according to IEC/EN 60068-2-6 |
| Mechanical shock resistance | | g | according to IEC 60068-2-27 |
| Continuous shock resistance (IEC/EN 60068-2-29) | | | According to IEC 60068-2-29 |
| Drop and topple | | | According to IEC 60068-2-31, free fall according to IEC 60068-2-32 |
| Degree of Protection | | | IP20 |
| Electromagnetic compatibility (EMC) | | | |
| ESD | Air/contact discharge | kV | EN 61000-4-2 |
| Electromagnetic fields | (0.08...1) / (1,4...2) / (2...2,7) GHz | V/m | EN 61100-4-2 |
| Burst | | | EN 61100-4-4 |
| Surge | | | EN 61100-4-5 |
| Radiated RFI | | V | EN 61100-4-6 |
| Emitted interference (radiated, high frequency) | (30...230 MHz) / (230...1000 MHz) | dB | EN 55016-2-3 |
| Voltage fluctuations/voltage dips | | | EN 61131-2 |
| Type test | | | to EN 61131-2 |
| Approvals | | | CE, cULus EAC |

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| Static heat dissipation, non-current-dependent | P_{vs} | W | 6 |
| Other technical data (sheet catalogue) | | | Technical Data |

Terminations

| | | | |
|------------------------------------|--|-----------------|--|
| Rated data | | | according to VDE 0611 Part 1/8.92/IEC/EN 60947-7-1 |
| Connection design in TOP direction | | | Push-In spring-cage terminals |
| Stripping length | | mm | 8 |
| Clamping range | | | max. 0.14 - 1.5 mm ² |
| Connectable conductors | | | |
| Solid | | mm ² | 0.25 - 1.5 |
| Flexible without ferrule | | mm ² | 0.25 - 1.5 |
| Flexible with ferrule | | mm ² | 0.25 - 1.5 |
| Flexible with ferrule | | mm ² | 0.25 - 0.75 |
| Gauge pin IEC/EN 60947-1 | | | A1 |

Networking

| | | | |
|---------------------------------|-----------|--------|---|
| Bus | | | PROFIBUS-DP |
| Bus protocol | | | PROFIBUS-DPV0 and PROFIBUS-DPV1 |
| Maximum station configuration | | | 48 cards (XN, XNE) of slice design or max. length of station: 1 m |
| System supply | U_{sys} | V DC | 24 /5 |
| Coordination type "2" | U_{sys} | V DC | 4.7 ... 5.3 |
| Coordination type "1" | U_{sys} | V DC | 18 ... 30 |
| Field voltage | U_L | | 24 V DC |
| Admissible range | | | 18-30 V DC |
| Residual ripple | | % | According to EN 61131-2 |
| Service interface | | | PS/2 socket |
| Connection design for field bus | | | Push-In spring-cage terminals |
| Data transfer rate | | kBit/s | 9.6 - 12000 |
| Data transfer rate setting | | | automatic |
| Addressing | | | DIP switches |
| Field bus termination | | | Via DIP switch |
| Number of parameter bytes | | | 2 bytes |
| Number of diagnostic bytes | | | 2 bytes |
| Address range | | | 1 - 125 decimal |

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 | 6 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | 0 |
| Operating ambient temperature max. | | °C | 55 |
| Degree of Protection | | | IP20 |
| 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. |

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| 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. |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

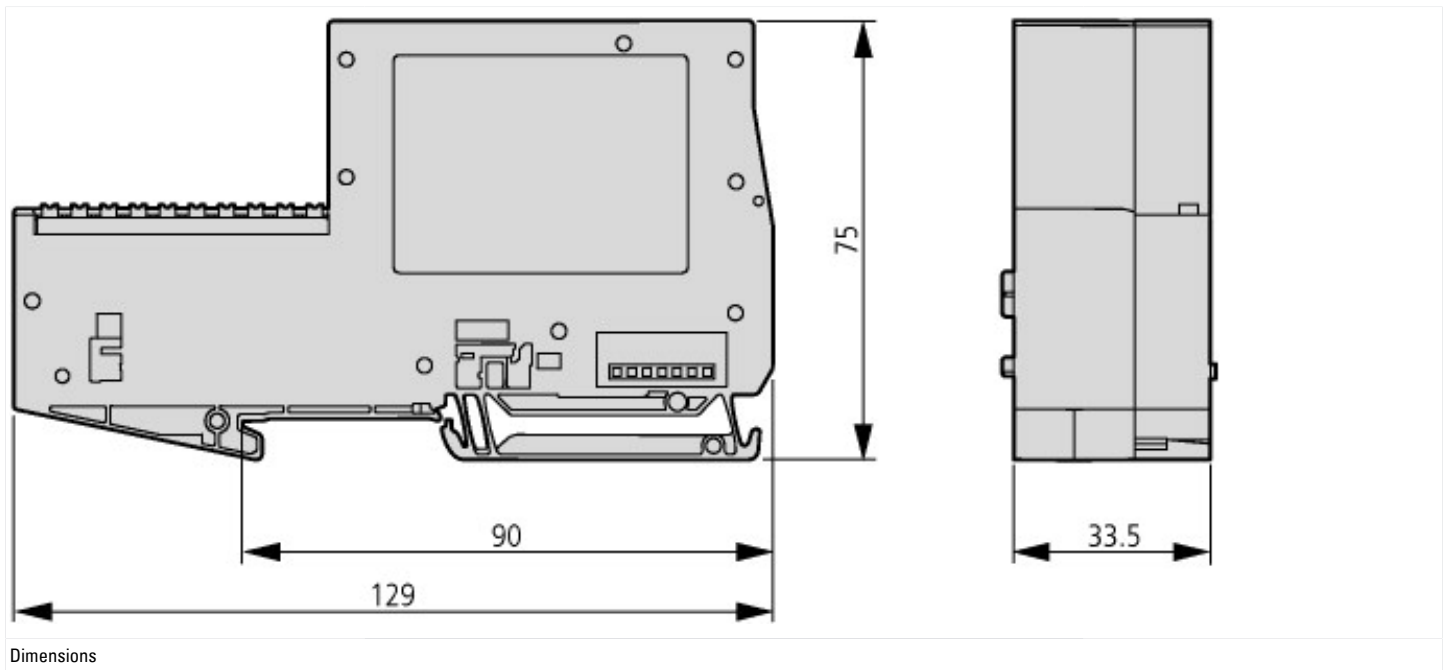
| | | |
|--|---|---------|
| PLC's (EG000024) / Fieldbus, decentr. periphery - communication module (EC001604) | | |
| Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - communications module (ecl@ss10.0.1-27-24-26-08 [BAA073013]) | | |
| Supply voltage AC 50 Hz | V | 0 - 0 |
| Supply voltage AC 60 Hz | V | 0 - 0 |
| Supply voltage DC | V | 18 - 30 |
| Voltage type of supply voltage | | DC |
| 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 SERCOS | | No |
| Supporting protocol for PROFINET IO | | No |
| Supporting protocol for PROFINET CBA | | 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 |
| System accessory | | Yes |
| Degree of protection (IP) | | IP20 |
| With potential separation | | No |

| | | | |
|--|--|----|------|
| Fieldbus connection over separate bus coupler possible | | | Yes |
| Rail mounting possible | | | Yes |
| Wall mounting/direct mounting | | | No |
| Front build in possible | | | No |
| Rack-assembly possible | | | No |
| Suitable for safety functions | | | No |
| Category according to EN 954-1 | | | |
| SIL according to IEC 61508 | | | None |
| 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 | | | None |
| Width | | mm | 33.5 |
| Height | | mm | 129 |
| Depth | | mm | 75 |

Approvals

| | | | |
|--------------------------------------|--|--|------------------------------|
| Product Standards | | | IEC/EN 6113-2; CE marking |
| North America Certification | | | Request filed for UL and CSA |
| Specially designed for North America | | | No |
| Current Limiting Circuit-Breaker | | | No |
| Degree of Protection | | | IEC: IP20, UL/CSA Type: - |

Dimensions



Dimensions

Assets (links)

Declaration of CE Conformity

00002416

Additional product information (links)

| | |
|------------------------|---|
| Technical Data | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111 |
| Product overview (WEB) | http://www.eaton.eu/xion |