



Gateway, DeviceNet, 85 50 225164

Part no. **XN-GW-DNET**  
 Catalog No. **140051**

EL-Nummer **4520637**  
 (Norway)

## Delivery program

Function			Gateways XI/ON
Function			XN gateway without integrated supply
Short Description			supports up to 62 disc-type modules (XN, XNE) 1 x Open Style Connector Address set with two decimal rotary coding switches Address range: 0 – 63 (dec.)
Field bus connection			DeviceNet
Service interface			PS/2 socket
Data transfer rate			500 Kbit/s 250 Kbit/s 125 kbit/s
Instructions The supply module XN-BR-24VDC-D must be mounted immediately next to the gateway to provide the supply for the gateway.			
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			
Approvals			CE, cULus
Potential isolation			Yes, through optocoupler
Ambient temperature		°C	0 - +55
Storage	g	°C	-25 - +85
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	+ 55
Relative humidity			5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C)
Harmful gases		ppm	SO <sub>2</sub> : 10 (rel. humidity < 75%, no condensation) H <sub>2</sub> 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
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	2.5
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			Spring-loaded/screw terminal
Stripping length		mm	8
Clamping range			max. 0.5 - 2.5 mm <sup>2</sup>
Connectable conductors			
Solid		mm <sup>2</sup>	0.5 - 2.5
Flexible without ferrule		mm <sup>2</sup>	0.5 - 1.5
Flexible with ferrule		mm <sup>2</sup>	0.5 - 1.5
Gauge pin IEC/EN 60947-1			A1

## Networking

Bus			DeviceNet
Bus protocol			DeviceNet
Maximum station configuration			74 cards (XN) of slice design or max. length of station: 1 m
System supply	U <sub>sys</sub>	V DC	24/5
Operational voltage		V DC	5 (from bus refreshing module)
Admissible range			4.7-5.3 V DC
Residual ripple		%	According to EN 61131-2
Rated current consumption from module bus	I <sub>MB</sub>	mA	≤ 250
Service interface			PS/2 socket
Connection design for field bus			Open style connector
Data transfer rate		kBit/s	125, 250, 500
Data transfer rate setting			through DIP switch
Addressing			2 decimal rotary coding switches
Field bus termination			through DIP switch
Address range			0 - 63 decimal

## Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I <sub>n</sub>	A	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	2.5
Heat dissipation capacity	P <sub>diss</sub>	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			
10.2.3.1 Verification of thermal stability of enclosures			
10.2.3.2 Verification of resistance of insulating materials to normal heat			
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			
10.2.4 Resistance to ultra-violet (UV) radiation			
10.2.5 Lifting			
10.2.6 Mechanical impact			
10.2.7 Inscriptions			
10.3 Degree of protection of ASSEMBLIES			
10.4 Clearances and creepage distances			
10.5 Protection against electric shock			
10.6 Incorporation of switching devices and components			
10.7 Internal electrical circuits and connections			
10.8 Connections for external conductors			
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 4.0

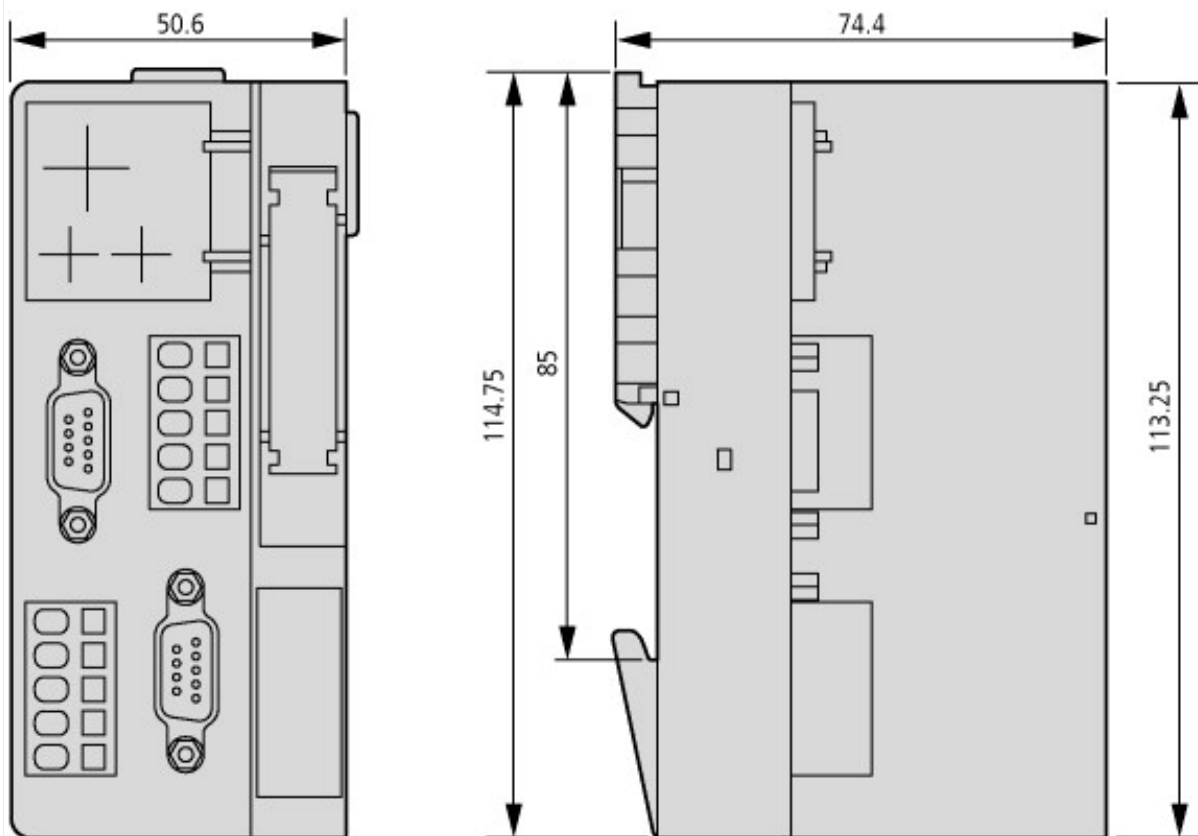
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30
Voltage type of supply voltage		DC
Supporting protocol in-bound for TCP/IP		No
Supporting protocol in-bound for PROFIBUS		No
Supporting protocol in-bound for CAN		No
Supporting protocol in-bound for INTERBUS		No
Supporting protocol in-bound for ASI		No
Supporting protocol in-bound for EIB/KNX		No
Supporting protocol in-bound for MODBUS		No
Supporting protocol in-bound for Data-highway		No
Supporting protocol in-bound for DeviceNet		Yes
Supporting protocol in-bound for SUCONET		No
Supporting protocol in-bound for LON		No
Supporting protocol in-bound for SERCOS		No
Supporting protocol in-bound for PROFINET IO		No
Supporting protocol in-bound for PROFINET CBA		No
Supporting protocol in-bound for Foundation Fieldbus		No
Supporting protocol in-bound for EtherNet/IP		No
Supporting protocol in-bound for AS-Interface Safety at Work		No
Supporting protocol in-bound for DeviceNet Safety		No
Supporting protocol in-bound for INTERBUS-Safety		No
Supporting protocol in-bound for PROFIsafe		No
Supporting protocol in-bound for SafetyBUS p		No
Supporting protocol in-bound for other bus systems		No
Supporting protocol out-bound for TCP/IP		No
Supporting protocol out-bound for PROFIBUS		No
Supporting protocol out-bound for CAN		No
Supporting protocol out-bound for INTERBUS		No
Supporting protocol out-bound for ASI		No
Supporting protocol out-bound for EIB/KNX		No
Supporting protocol out-bound for MODBUS		No
Supporting protocol out-bound for Data-highway		No
Supporting protocol out-bound for DeviceNet		Yes
Supporting protocol out-bound for SUCONET		No
Supporting protocol out-bound for LON		No
Supporting protocol out-bound for SERCOS		No
Supporting protocol out-bound for PROFINET IO		No
Supporting protocol out-bound for PROFINET CBA		No
Supporting protocol out-bound for Foundation Fieldbus		No
Supporting protocol out-bound for EtherNet/IP		No
Supporting protocol out-bound for AS-Interface Safety at Work		No
Supporting protocol out-bound for DeviceNet Safety		No
Supporting protocol out-bound for INTERBUS-Safety		No

Supporting protocol out-bound for PROFIsafe			No
Supporting protocol out-bound for SafetyBUS p			No
Supporting protocol out-bound for other bus systems			No
Radiostandard Bluetooth			No
Radiostandard WLAN 802.11			No
IO link master			No
System accessory			Yes
Degree of protection (IP)			IP20
With potential separation			Yes
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
Suited for safety functions			No
Safety class according to DIN V 19250			0
Category according to EN 954-1			-
SIL according to IEC 61508			0
SIL according to IEC 62061			0
Performance level acc. to EN ISO 13849-1			-
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	50.6
Height		mm	114.8
Depth		mm	74.4

## Approvals

Product Standards			UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
UL File No.			E205091
UL Category Control No.			NRAQ, NRAQ7
CSA File No.			UL report applies to both US and Canada
CSA Class No.			2252-01, 2252-81
North America Certification			UL recognized, certified by UL for use in Canada
Specially designed for North America			No
Current Limiting Circuit-Breaker			No
Degree of Protection			IEC: IP20, UL/CSA Type: -

## Dimensions



Notes: The plugs/connectors used depend on the version.

Dimensions

## Additional product information (links)

### User manual XI/ON gateways for DeviceNet MN05002006Z

Benutzerhandbuch XI/ON-Gateways für  
DeviceNet MN05002006Z - Deutsch

[https://es-assets.eaton.com/DOCUMENTATION/AWB\\_MANUALS/MN05002006Z\\_DE.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05002006Z_DE.pdf)

User manual XI/ON gateways for DeviceNet  
MN05002006Z - English

[https://es-assets.eaton.com/DOCUMENTATION/AWB\\_MANUALS/MN05002006Z\\_EN.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05002006Z_EN.pdf)

Technical Data

<http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111>