

Part no. Article no. XN-GW-PBDP-12MB 140048



## **Delivery programme**

Function	XN gateway without integrated supply
Short Description	supports up to 74 disc-type modules (XN) 1 x 9-pole SUB-D socket Address setting with two hexadecimal rotary coding switch Address range: 1 – 125 (dec.)
Field bus connection	PROFIBUS-DP (DPV0 protocol)
Service interface	PS/2 socket
Data transfer rate	9.6 Kbit/s to 12 Mbit/s
Instructions The supply module XN-BR-24VDC-D must be mounted immediately next to the gate	eway 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
Potential isolation			Yes, through optocoupler
Ambient temperature		°C	0 - +55
Storage	9	°C	-25 - +85
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 resistance, operating conditions			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			EN 61100-4-2
Electromagnetic fields			EN 61100-4-2
Burst			EN 61100-4-4
Surge			EN 61100-4-5
HF unsymmetric			EN 61100-4-6
Emitted interference (radiated, high frequency)			EN 55016-2-3
Voltage fluctuations			EN 61131-2
Type test			to EN 61131-2
Approvals			CE, cULus
Maximum power loss	Pv	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			
"e" solid H07V-U		mm <sup>2</sup>	0.5 - 2.5
"f" flexible H 07V-K		mm <sup>2</sup>	0.5 - 1.5
Rated data Connection design in TOP direction Stripping length Clamping range Connectable conductors "e" solid H07V-U		mm <sup>2</sup>	Spring-loaded/screw terminal 8 max. 0.5 - 2.5 mm <sup>2</sup> 0.5 - 2.5

rwith ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) nm² 0.5 - 1.5   '' with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight) nm² 0.5 - 1.5   Gauge pin IEC/EN 60947-1 A1 A1   Networking PROFIBUS DP   Bus protocol PROFIBUS-DPV0   Maximum station configuration Yugys V DC   System supply V <sub>Sys</sub> V DC 24 /5   Operational voltage Yugys V DC 5 (from bus refreshing module)   Admissible range MBB MA According to EN 61131-2   Reted current consumption from module bus MBB MA Signal According to EN 61131-2   Service interface PS/2 socket 1x D-SUB socket, 9-pin
gas-tight) imm   Gauge pin IEC/EN 60947-1 imm   Networking imm   Field bus PROFIBUS DP   Bus protocol PROFIBUS-DPV0   Maximum station configuration v Dc   System supply Vsys V Dc   Operational voltage V Dc 24/5   Residual ripple v Dc 5(from bus refreshing module)   Residual ripple v Dc 5(from bus refreshing module)   Read current consumption from module bus v Bates v Bates   Service interface v Dc imm
Networking     Field bus   Image: State of the s
Field bus   PROFIBUS DP     Bus protocol   PROFIBUS-DPV0     Maximum station configuration   VL     System supply   VDC     Operational voltage   VDC     Admissible range   VDC     Residual ripple   %     Rated current consumption from module bus   MB     Service interface   MB
Bus protocol   PROFIBUS-DPV0     Maximum station configuration   74 cards (XN) of slice design or max. length of station: 1 m     System supply   VDc   24/5     Operational voltage   VDC   5 (from bus refreshing module)     Admissible range   74 cards (XD of slice design or max. length of station: 1 m     Residual ripple   VDC   5 (from bus refreshing module)     Rated current consumption from module bus   MB   MA   Service interface
Maximum station configuration Maximum station configuration Maximum station configuration Maximum station configuration   System supply U <sub>Sys</sub> V DC 24/5   Operational voltage V DC 5 (from bus refreshing module)   Admissible range V DC 4.7-5.3 V DC   Residual ripple MB Mas 4.0   Service interface MB Mas 5 (socket
System supply U <sub>sys</sub> V DC 24/5   Operational voltage V DC 5 (from bus refreshing module)   Admissible range V DC 4.7-5.3 V DC   Residual ripple % According to EN 61131-2   Rated current consumption from module bus IMB MA Service interface
Product of the structure
Admissible range Image: Constraint of the second
Residual ripple % According to EN 61131-2   Rated current consumption from module bus MB MA ≦ 430   Service interface VMB MA E 200 (Secket)
Rated current consumption from module bus IMB MA = 430   Service interface IMB IMB PS/2 socket
Service interface PS/2 socket
Connection design for field hus
Data transfer ratekBit/s9.6 - 12000
Addressing 2 hexadecimal rotary switches
Field bus termination through SUB-D plug
Number of parameter bytes 5 bytes
Number of diagnostic bytes 3 bytes
Address range 1 - 125 decimal

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

I <sub>n</sub>	А	0
P <sub>vid</sub>	W	0
P <sub>vid</sub>	W	0
P <sub>vs</sub>	W	2.5
P <sub>diss</sub>	W	0
	°C	0
	°C	55
		IP20
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
t		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
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		Meets the product standard's requirements.
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		Does not apply, since the entire switchgear needs to be evaluated.
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		Is the panel builder's responsibility.
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		Is the panel builder's responsibility.
		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
	P <sub>vid</sub> P <sub>vid</sub> P <sub>vs</sub>	Pvid W Pvid W Pvs W Pdiss W C C C C C

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**

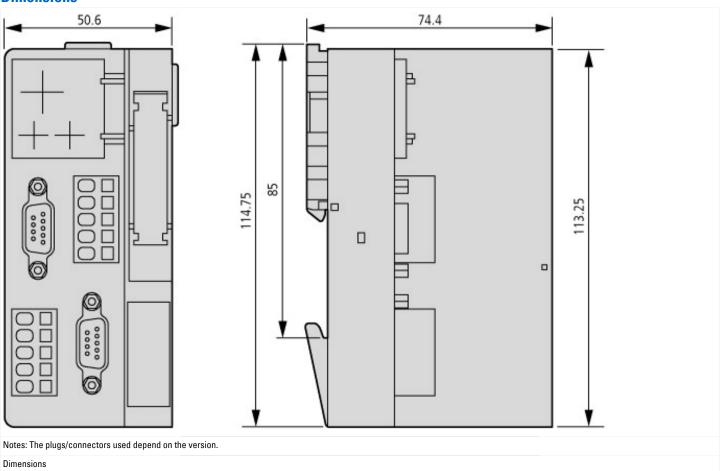
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30
Voltage type of supply voltage		DC
Supporting protocol in-bound for TCP/IP		No
Supporting protocol in-bound for PROFIBUS		Yes
Supporting protocol in-bound for CAN		No
Supporting protocol in-bound for INTERBUS		No
Supporting protocol in-bound for ASI		Νο
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		No
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		Yes
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		No
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**

UL Category Control No.PARA PARA PARA PARA PARA PARA PARA PARA	Approvidio	
UL Category Control No.   NRAQ, NRAQ7     CSA File No.   UL report applies to both US and Canada     CSA Class No.   252-01, 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	Product Standards	UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
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 Mo   Current Limiting Circuit-Breaker Mo	UL File No.	E205091
CSA Class No. Provide the control of the transmission of transmission of the transmission of transmi	UL Category Control No.	NRAQ, NRAQ7
North America Certification UL recognized, certified by UL for use in Canada   Specially designed for North America No   Current Limiting Circuit-Breaker Image: Constant America	CSA File No.	UL report applies to both US and Canada
Specially designed for North America Mo   Current Limiting Circuit-Breaker Mo	CSA Class No.	2252-01, 2252-81
Current Limiting Circuit-Breaker No	North America Certification	UL recognized, certified by UL for use in Canada
	Specially designed for North America	No
Degree of Protection IEC: IP20, UL/CSA Type: -	Current Limiting Circuit-Breaker	No
	Degree of Protection	IEC: IP20, UL/CSA Type: -

# Dimensions



# Additional product information (links)

MN05002004Z User manual XI/ON gateways for Profibus-DP		
MN05002004Z Benutzerhandbuch XI/ON Gateways für Profibus-DP - Deutsch		
	MN05002004Z User manual XI/ON gateways for Profibus-DP - English	
Technical Data	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111	