#### **DATASHEET - XN-322-2DMS-WM**



Weigh module, 2 DMS, 24 bits

Part no. XN-322-2DMS-WM Catalog No. 178793
Alternate Catalog XN-322-2DMS-WM

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#### **Delivery program**

Function	XN300 technology modules
Connection technique	Push-in spring-cage terminal
Function	XN-322 weigh module for XN300
Short Description	Weigh module, 2DMS, 24Bit
For use with	XN-312

## **Technical data**

G	eı	ne	ral

Standards			IEC/EN 61131-2 IEC/EN 61000-6-2 IEC/EN 61000-6-4
Approvals			
Approvals			CE, cULus EAC
shipping classification			DNV GL
			DNV-GL MARITIME
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	8/4
Electromagnetic fields	(0.081) / (1,42) / (2 2,7) GHz	V/m	10/3/1
Burst			
Supply cable		kV	2
Signal cable		kV	1
Surge			
Supply cable (balanced / unbalanced)		kV	0,5 / 0,5
Signal cable (unbalanced)		kV	1
Radiated RFI		V	10
Emitted interference (radiated, high frequency)	(30230 MHz) / (2301000 MHz)	dB	40 / 47 class A
Voltage fluctuations/voltage dips			Yes / 10 ms
Ambient conditions			
Climatic conditions			
Climatic proofing			Dry heat to IEC 60068-2-2

			Damp heat as per EN 60068-2-3
Air pressure (operation)		hPa	795 - 1080
Relative humidity			0 - 95%, non condensing
Condensation			prevent with suitable measures
Temperature			
Operation		°C	0 - +60
Storage, transport	9	°C	-20 - +85
Degree of Protection	v		IP20
Mounting position			Horizontal
Free fall, packaged (IEC/EN 60068-2-32)		m	1
Vibrations	3,5 mm / 1 g	Hz	5 - 8.4 / 8.4 -150
Mechanical shock resistance	Semisinusoida 15 g/11 ms		
Terminations	- 3/		
Rated operational data			
Insulating material group			I
Overvoltage category / pollution degree			III/3
Rated operating voltage		V	160
Maximum load current/cross-sectional area		A / mm²	X (not specified by plug manufacturer)
Connection design in TOP direction			Push-in spring-cage terminal (plug-in connection)
Stripping length		mm	10
Gauge pin IEC/EN 60947-1			A1
Connection specifications			
"e" solid H07V-U		mm <sup>2</sup>	0.2 - 1.5
"f" flexible H 07V-K		mm <sup>2</sup>	0.2 - 1.5
"f" with ferrules without plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm <sup>2</sup>	0.25 - 1.5
"f" with ferrules with plastic collar according to DIN 46228-1 (ferrules crimped gas-tight)		mm <sup>2</sup>	0.25-1,5
Cable size		AWG	24 - 16
Supply			
Power supply - Input			
Power supply			
Current consumption for +5 V power supply (internal)	1	mA	(typ.) 50
Current consumption for +24 V power supply	1	mA	(typ.) 34
Power supply - Output			
Sensor/transmitter supply			
Rated operating voltage	Ua	V	5 (X1, X2)
Rated operational current	I <sub>max</sub>	Α	66.3
Potential isolation			no
Rated operating voltage	Ua	V	5 (X1, X2)
Rated operational current	I <sub>max</sub>	Α	66.3
Potential isolation			no
Heat dissipation			
Heat dissipation (without active channels)		W	0.785
Max. heat dissipation		W	1.295
Notes on heat dissipation			The max. heat dissipation is specified as the maximum power produced inside the device's housing.
Analog inputs			·
Channels		Quantity	2
Measured variables			Voltage
Resolution		Bit	24
Min. value refresh time/cycle time	per channel / all channels	ms	4/4
Software input filter			parameterizable
Potential isolation			no
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Design verification as per II	EC/EN 61439
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Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	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	1.3
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.	0.00	°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.
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 - function-/technology module (EC001601)

Electric engineering, automation, process control engineering / Control / Field bus, decentralized peripheral / Field bus, decentralized peripheral - function-/technology module

Supply voltage AC 60 Hz  Supply voltage DC  V  0 - 0  Voltage type of supply voltage  Number of functions  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-485  Number of HW-interfaces parallel  Number of HW-interfaces Wireless  Number of HW-interfaces Wireless  V  0 - 0  C	(ecl@ss10.0.1-27-24-26-05 [BAA066014])	, accontrainzed periprierar	, Tiola bas, account allega periphoral Tanoachi /tooliilology illoadic
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Voltage type of supply voltage  Number of functions  Number of HW-interfaces industrial Ethernet  Number of interfaces PROFINET  Number of HW-interfaces RS-232  Number of HW-interfaces RS-422  Number of HW-interfaces RS-425  Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces parallel  Number of HW-interfaces Wireless	Supply voltage AC 60 Hz	V	0 - 0
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Number of HW-interfaces Wireless 0	Number of HW-interfaces serial TTY		0
	Number of HW-interfaces parallel		0
Number of HW-interfaces USB 0	Number of HW-interfaces Wireless		0
	Number of HW-interfaces USB		0

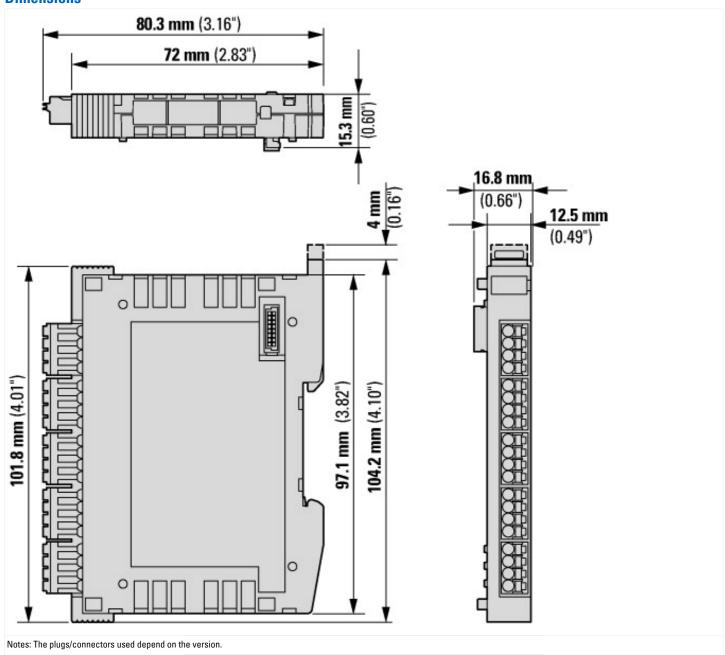
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Radio standard WLAN 88211         No           Radio standard GBRS         No           Radio standard GBM         No           Radio standard UMTS         No           10 link master         No           System accessory         Yes           Suitable for counting         No           Suitable for weighting         No           Suitable for weighting         No           Suitable for methyparture control         No           Suitable for pressure control         No           Suitable for prossure control         No           Suitable for for prossure control         No           Suitable for for SI         No           Suitable for for CN         No           Suitable for incremental data detection         No           Suitable for incremental data detection         No           Suitable for fully in sew surement         No           Suitable for fully in sew surement         No           Suitable for fully in sew surement         No           Suitable for fully in sex surement         No           Suitable for fully in sex surement         No           Suitable for multi-axis postioning         No           Suitable for multi-axis postioning         No		
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Suitable for pressure control         6         6         7		
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Function electronic positioning available  Suitable for CNC  Suitable for SSI  Suitable for incremental data detection  Suitable for incremental data detection  Suitable for detection absolute value  Flux controller possible  Suitable for flux measurement  Suitable for flux measurement  Suitable for path controller  Suitable for am controller  Suitable for path controller  Suitable for multi-axis control  Suitable for multi-axis control  Suitable for multi-axis positioning  Suitable for multi-axis positioning sosible  Function block automatic reset  Function block automatic reset  Suitable function block automatic reset		
Suitable for CNC Suitable for SSI Suitable for incremental data detection Suitable for incremental data detection Suitable for detection absolute value Suitable for detection absolute value Suitable for detection absolute value Suitable for flux measurement Suitable for path controller Suitable for path controller Suitable for path controller Suitable for multi-axis controll Suitable for multi-axis control Suitable for multi-axis positioning Suitable for mul		No
Suitable for SSI Suitable for incremental data detection Suitable for incremental data detection Suitable for detection absolute value No Suitable for detection absolute value No Suitable for gestible Suitable for flux measurement Suitable for path controller Suitable for path controller Suitable for cam controller Suitable for multi-axis controller Suitable for multi-axis control Single-axis controller possible No Suitable for multi-axis positioning Suitable for multi-axis positioning possible Function block restart blockage Function block automatic reset Contactor control function block Suitable for multi-axis positioning Suitable for multi-axis positioning No Suitable for multi-axis positioning possible No	Function electronic positioning available	No
Suitable for incremental data detection  Suitable for detection absolute value  Flux controller possible  Suitable for flux measurement  Suitable for path controller  Suitable for path controller  Suitable for cam controller  Suitable for flying saw  Suitable for multi-axis control  Suitable for multi-axis control  Suitable for multi-axis positioning  No  Single-axis positioning possible  Function block restart blockage  Function block automatic reset  No  Contactor control function block	Suitable for CNC	No
Suitable for detection absolute value  Flux controller possible  Suitable for flux measurement  Suitable for path controller  Suitable for ram controller  Suitable for flying saw  Suitable for multi-axis control  Suitable for multi-axis control  Suitable for multi-axis positioning  No  Single-axis positioning possible  Function block restart blockage  Function block automatic reset  No  Contactor control function block	Suitable for SSI	No
Flux controller possible  Suitable for flux measurement  Suitable for path controller  Suitable for cam controller  Suitable for flying saw  Suitable for multi-axis control  Suitable for multi-axis control  Suitable for multi-axis control  Suitable for multi-axis positioning  No  Suitable for multi	Suitable for incremental data detection	No
Suitable for flux measurement  Suitable for path controller  No Suitable for cam controller  No Suitable for flying saw  Suitable for multi-axis control  Single-axis controller possible  Suitable for multi-axis positioning  Suitable for multi-axis positioning  Suitable for multi-axis positioning  Suitable for multi-axis positioning  No Single-axis positioning possible  No Function block restart blockage  Function block automatic reset  Contactor control function block  No Contactor control function block  No  No  No  No  No  No  No  No  No  N	Suitable for detection absolute value	No
Suitable for path controller  Suitable for cam controller  No  Suitable for flying saw  No  Suitable for multi-axis control  Single-axis controller possible  No  Suitable for multi-axis positioning  Suitable for multi-axis positioning  No  Suitable for multi-axis positioning  No  Single-axis positioning possible  No  Function block restart blockage  No  Contactor control function block  No  Contactor control function block  No  No  No  No  No  No  No  No  No  N	Flux controller possible	No
Suitable for cam controller  Suitable for flying saw  Suitable for multi-axis control  Suitable for multi-axis control  Single-axis controller possible  Suitable for multi-axis positioning  Suitable for multi-axis positioning  No  Single-axis positioning possible  Function block restart blockage  Function block automatic reset  Contactor control function block  No  No  No  No  No  No  No  No  No  N		No
Suitable for flying saw  Suitable for multi-axis control  Single-axis controller possible  Suitable for multi-axis positioning  Suitable for multi-axis positioning  No  Single-axis positioning possible  No  Function block restart blockage  Function block automatic reset  Contactor control function block  No  No  No  No  No  No  No  No  No  N	Suitable for path controller	No
Suitable for multi-axis control  Single-axis controller possible  No  Suitable for multi-axis positioning  No  Single-axis positioning possible  No  Function block restart blockage  No  Function block automatic reset  No  Contactor control function block  No		
Single-axis controller possible  No Suitable for multi-axis positioning  No Single-axis positioning possible  Function block restart blockage  Function block automatic reset  Contactor control function block  No  No		
Suitable for multi-axis positioning  Single-axis positioning possible  No  Function block restart blockage  No  Function block automatic reset  No  Contactor control function block  No		
Single-axis positioning possible  Function block restart blockage  Function block automatic reset  Contactor control function block  No  No		
Function block restart blockage No Function block automatic reset No Contactor control function block No		
Function block automatic reset No Contactor control function block No	Single-axis positioning possible	
Contactor control function block No	-	
		No
Function block emergency stop		
	Function block emergency stop	No

Function block contactless working protection installation		No
Function block affirm pushbutton		No
Function block 2-hand switching		No
Function block operating mode selection		No
Function block access control		No
Degree of protection (IP)		IP20
Degree of protection (NEMA)		
Fieldbus connection over separate bus coupler possible		No
Frequency measurement		No
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	16.8
Height	mm	104.2
Depth	mm	80.3

# Approvals

Product Standards	CE, cULus
UL File No.	E135462

## **Dimensions**



Dimensions

## **Additional product information (links)**

Manual XN300 digital I/O modules, analog I/O n	Manual XN300 digital I/O modules, analog I/O modules, power supply modules, technology modules MN050002		
Handbuch XN300 digitale E/A-Module, analoge E/A-Module, Stromversorgungsmodule, Technologiemodule MN050002 - Deutsch	https://es-assets.eaton.com/D0CUMENTATION/AWB_MANUALS/MN050002_DE.pdf		
Manual XN300 digital I/O modules, analog I/O modules, power supply modules, technology modules MN050002 - English	https://es-assets.eaton.com/D0CUMENTATION/AWB_MANUALS/MN050002_EN.pdf		
Technical Data	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111		
f1=1457&f2=1282&f3=1836;Download Wizard XN300-Assist	http://applications.eaton.eu/sdlc?LX=11&		