

#### Serial interface module XI/ON, RS485/422

Part no. XN-1RS485/422 Article no. 140152



**Delivery program** 

Function	XI/ON technology modules
Short Description	Transmission rate selectable up to 115200 Bit/s
For use with	XN-S4T-SBBS XN-S4S-SBBS

### **Technical data**

i Guillicai uata			
General			
Standards			EN 61000-6-2 EN 61000-6-4 EN 61131-2
Potential isolation			Yes, through optocoupler
Ambient temperature			
Ambient temperature, operation		°C	0 - +55
Storage, transport	θ	°C	-25 - +85
Relative humidity			
Relative humidity			5 - 95 % (indoor), Level RH-2, no condensation (for storage at 45°C)
Ambient conditions, mechanical			
Degree of Protection			IP20
Harmful gases		ppm	$SO_2$ : 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
Electromagnetic compatibility (EMC)			
ESD	Air/contact discharge	kV	EN 61100-4-2
Electromagnetic fields	(0.081) / (1,42) / (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)	(30230 MHz) / (2301000 MHz)	dB	EN 55016-2-3
Voltage fluctuations/voltage dips			EN 61131-2
Type test			to EN 61131-2
Approvals			CE, cULus
Other technical data (sheet catalogue)			Technical Data
Analog input modules			
Rated voltage through supply terminal	$U_{L}$		24 V DC
Rated current consumption from supply terminal	IL	mA	25
Rated current consumption from module bus	I <sub>MB</sub>	mA	≤ <sub>90</sub>

Diagnostics 1

Base modules  without C connection, for sensor feeding  Analog output modules  Rated voltage through supply terminal  Rated current consumption from supply terminal  IL  Rated current consumption from module bus  Digital outputs  Rated voltage through supply terminal  Rated current consumption from the supply terminal (at load current = 0 mA)  IL  Rated current consumption from module bus  Power loss  P	n	mA mA	4-wire XN-S4x-SBBS  24 V DC  25
Analog output modules  Rated voltage through supply terminal  Rated current consumption from supply terminal  Rated current consumption from module bus  Digital outputs  Rated voltage through supply terminal  Rated current consumption from the supply terminal (at load current = 0 mA)  IL  Rated current consumption from module bus  IMB  Power loss	n	mA mA	XN-S4x-SBBS  24 V DC  25  ≤ 90  24 V DC
Rated voltage through supply terminal  Rated current consumption from supply terminal  Rated current consumption from module bus  Digital outputs  Rated voltage through supply terminal  Rated current consumption from the supply terminal (at load current = 0 mA)  IL  Rated current consumption from module bus  IMB  Power loss	n	mA mA	25 ≦ <sub>90</sub> 24 V DC
Rated current consumption from supply terminal  Rated current consumption from module bus  Digital outputs  Rated voltage through supply terminal  Rated current consumption from the supply terminal (at load current = 0 mA)  IL  Rated current consumption from module bus  IMB  Power loss	n	mA mA	25 ≦ <sub>90</sub> 24 ∨ DC
Rated current consumption from module bus  Digital outputs  Rated voltage through supply terminal  Rated current consumption from the supply terminal (at load current = 0 mA)  IL  Rated current consumption from module bus  IMB  Power loss  P	n	mA mA	≦ <sub>90</sub> 24 V DC
Digital outputs  Rated voltage through supply terminal  Rated current consumption from the supply terminal (at load current = 0 mA)  IL  Rated current consumption from module bus  IMB  Power loss  P	n	mA	24 V DC
Rated voltage through supply terminal $U_L$ Rated current consumption from the supply terminal (at load current = 0 mA) $I_L$ Rated current consumption from module bus $I_{MB}$ Power loss $P$	n	mA	24 V DC
Rated voltage through supply terminal $U_L$ Rated current consumption from the supply terminal (at load current = 0 mA) $I_L$ Rated current consumption from module bus $I_{MB}$ Power loss $P$	n	mA	
Rated current consumption from the supply terminal (at load current = 0 mA)  IL  Rated current consumption from module bus  IMB  Power loss  P	n		
Rated current consumption from module bus I <sub>MB</sub> Power loss P	n		25
Power loss P		mA	
	V	IIIA	≤ <sub>90</sub>
		W	Normally 1
Number of diagnostic bytes			1
Digital inputs			
Rated voltage through supply terminal U <sub>L</sub>			24 V DC
Rated current consumption from supply terminal	n	mA	25
Rated current consumption from module bus	n	mA	≦ <sub>90</sub>
Relay modules			
Rated voltage through supply terminal $$\rm U_L$$			24 V DC
Rated current consumption from supply terminal	n	mA	25
Rated current consumption from module bus I <sub>MB</sub>	n	mA	≤ <sub>90</sub>
Power cumply module	V	W	Normally 1
Power supply module Rated voltage through supply terminal UL			24 V DC
Rated current consumption from supply terminal			25
Rated current consumption from module bus I <sub>MB</sub>	n	mA	≦ <sub>90</sub>
Diagnostics			1
Insulation voltage			
between interface and module bus/system voltage	٧	Veff	500
Power loss P	V	W	1
Counter module			21122
Rated voltage through supply terminal U <sub>L</sub>			24 V DC
Rated current consumption from supply terminal	n		25
Rated current consumption from module bus	n	mA	≦ <sub>90</sub>
Measuring modes			
Diagnostics			1
parameters			4
Base modules			
without C connection, for sensor feeding			4-wire XN-S4x-SBBS
Interfaces			
Туре			RS 484/RS 422
Rated voltage through supply terminal U <sub>L</sub>			24 V DC
Rated current consumption from supply terminal	n	mA	25
Rated current consumption from module bus	n	mA	≦ <sub>90</sub>
Power loss P	V		Normally 1
Transmission channels			RxD, TxD
Data buffer			
Reception	Е	Byte	128
Transmit			64
Basic unit			
RS485			2-wire, half-duplex
RS422			2-wire, half-duplex or 4-wire, full-duplex
Bit transfer rate			Max. 115200 bit/s (parameterizable), default setting: 9600 Bit/s, 7 data bits, odd
			parity, 2 stop bits

Insulation voltage		
between interface and module bus/system voltage	Veff	500
between interface and field voltage	Veff	500
Conductor impedance	Ω	120
Bus termination		120 Ω (external)
Cable length RS232	m	max. 30
Number of diagnostic bytes		1
Number of parameter bytes		4
Base modules		
without C connection, for sensor feeding		4-wire XN-S4x-SBBS

# Design verification as per IEC/EN 61439

In	Α	0
P <sub>vid</sub>	W	0
P <sub>vid</sub>	W	0
P <sub>vs</sub>	W	1
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.
		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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		Meets the product standard's requirements.
		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.
		Is the panel builder's responsibility.
		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.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	P <sub>vid</sub> P <sub>vid</sub> P <sub>vs</sub>	P <sub>vid</sub> W P <sub>vid</sub> W P <sub>vs</sub> W P <sub>diss</sub> W °C

### **Technical data ETIM 6.0**

DLC's (ECOCOSA)	/ Eigldhug dagan	tr narinharı	communication mod	ula (ECOO1GOA)
FLU S (EUUUUUZ41/	rielubus, ueceli	u. belibliely -	Communication mod	uie (EC001004)

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

(eci@ss8.1-27-24-26-08 [BAA0/3010])		
Supply voltage AC 50 Hz	V	0 - 0
Supply voltage AC 60 Hz	V	0 - 0
Supply voltage DC	V	18 - 30

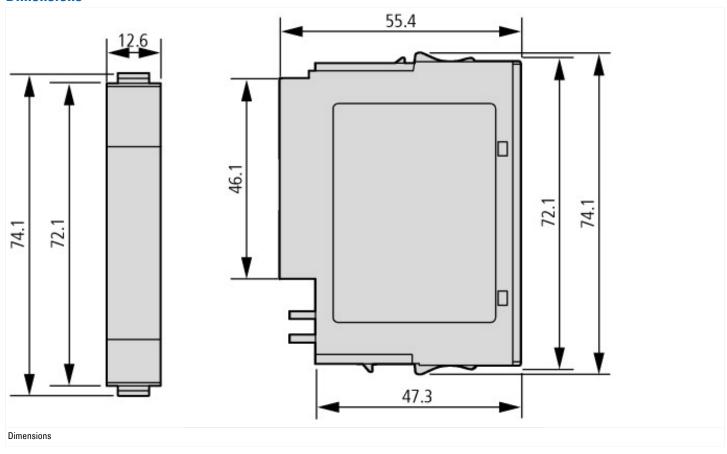
Voltage type of supply voltage		DC
Voltage type of supply voltage		
Supporting protocol for TCP/IP		No N
Supporting protocol for PROFIBUS		No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		No
Supporting protocol for KNX		No
Supporting protocol for MODBUS		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		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
Suitable for safety functions		No
Category according to EN 954-1		
SIL according to IEC 61508		None
Performance level acc. to 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	12.6
Height	mm	74.1
Depth	mm	55.4

# Approvals

Product Standards	UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking
UL File No.	E205091
OL FIIE NO.	E203091
UL Category Control No.	NRAQ, NRAQ7
CSA File No.	UL report applies to both US and Canada
004.01	0050 04 0050 04
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**



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

MN05002014Z User manual XI/ON XN-1RS485/422 technology module		
MN05002014Z Benutzerhandbuch XI/ON Technologiemodul XN-1RS485/422 - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002014Z_DE.pdf	
MN05002014Z User manual XI/0N XN-1RS485/422 technology module - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05002014Z_EN.pdf	
Technical Data	http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=14.111	