## **DATASHEET - XIOC-8AI-I2**



## Analog input card for XC100/200, 24 V DC, 8AI (4-20mA)

XIOC-8AI-I2 Part no. Catalog No. 262549

**EL-Nummer** (Norway)

4519670



### **Delivery program**

- 1 P - 3 -	
Function	Analog modules
	Compact I/O system for connection to XC100/200 Modular PLCs XC100/200 expandable with up to 15 XI/OC modules Optionally, screw terminals or spring-loaded terminals for digital/analog modules
Description	Inputs 8 Inputs 4 - 20 mA

# **Technical data**

### General

Standards			IEC/EN 61131-2 EN 50178
Ambient temperature		°C	0 - +55
Storage	9	°C	-25 - +70
Vibration resistance			10 - 57 Hz ±0.075 mm 57 - 150 Hz ±1.0 mm
Mechanical shock resistance		g	15 Shock duration 11 ms
Impact resistance			500 g/Ø 50 mm ±25 g
Overvoltage category/pollution degree			11/2
Protection class			1
Degree of Protection			IP20
Emitted interference			DIN/EN 55011/22, Class A
Weight		kg	0.18
Power supply			

Rated voltage	U <sub>e</sub>	V DC	24 (12)
Admissible range			20.4 – 28.8 (11.8 – 14.4)
Residual ripple		%	≦5
Neutral poles			
Duration of dip		ms	10
Repetition rate		s	1
Maximum power loss	$P_{v}$	W	0.5

### Inputs

Bit 12 Inversion time ≤ 5 ms Ital error % ≤ ±1 (of the full-scale value)  Circuit within each channel Between the input channels Put channels  Otto.  Otto.	mputo		
sonversion time $\leq 5 \text{ ms}$ tal error $\%$ $\leq \pm 1 \text{ (of the full-scale value)}$ stential isolation  Circuit within each channel Opto-isolated  Between the input channels No  put channels Qty. 8	Input current	mA	4 - 20
tal error % \$\frac{\pmathsquare}{\pmathsquare} \leq \pmathsquare 1 \text{ (of the full-scale value)}\$  tential isolation  Circuit within each channel Opto-isolated  Between the input channels No  put channels Qty. 8	Resolution, digital	Bit	12
tential isolation  Circuit within each channel  Between the input channels  Otto-isolated  No  Out.  8	Conversion time		≦ 5 ms
Circuit within each channel Opto-isolated  Between the input channels No put channels Oty. 8	Total error	%	≦ ±1 (of the full-scale value)
Between the input channels No put channels Qty. 8	Potential isolation		
put channels Qty. 8	Circuit within each channel		Opto-isolated
	Between the input channels		No
ernal current consumption (5 V DC) mA Normally 100	Input channels	Qty.	8
	Internal current consumption (5 V DC)	mA	Normally 100
rminations Plug-in terminal block	Terminations		Plug-in terminal block
ternal power supply 24 V DC (-15/+20 %), approx. 150 mA	External power supply		24 V DC (-15/+20 %), approx. 150 mA
onnection type 2-core screened cable (≦20 m)	Connection type		2-core screened cable (≤20 m)

Design verification as per IEC/EN 61439			
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	0.5
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
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) / PLC analogue I/O-module (EC001420)			
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS analog input/output module (ecl@ss10.0.1-27-24-22-01 [AKE524014])			
Number of analogue inputs		8	
Number of analogue outputs		0	
Analogue inputs configurable		Yes	
Analogue outputs configurable		Yes	
Input, current		Yes	
Input, voltage		No	
Input, resistor		No	
Input, resistance thermometer		No	
Input, thermocouple		No	
Input signal, configurable		No	
Resolution of the analogue inputs	Bit	12	
Output, current		No	
Output, voltage		No	
Output signal configurable		No	
Resolution of the analogue outputs	Bit	0	
Type of electric connection		Screw-/spring clamp connection	

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	30
Height	mm	100
Depth	mm	95

# Approvals

PP 5 5 5	
Product Standards	IEC: see Technical Data; UL508; CSA-C22.2 No. 0-M; CSA-C22.2 No. 142-M; CE marking
UL File No.	E135462
UL Category Control No.	NRAQ
CSA File No.	012528
CSA Class No.	2252-01
North America Certification	UL listed, CSA certified
Specially designed for North America	No
Current Limiting Circuit-Breaker	No
Degree of Protection	IEC: IP20, UL/CSA Type: -

# **Dimensions**



