

## Analog input card for XC100/200, 24 V DC, 8DI(+/-10V)

**Part no.** XIOC-8AI-U2  
**257900**  
**EL Number** 4519672  
**(Norway)**

General specifications		
Product name		Eaton XIOC Accessory Input card
Part no.		XIOC-8AI-U2
EAN		4015082579005
Product Length/Depth		100 millimetre
Product height		95 millimetre
Product width		30 millimetre
Product weight		0.135 kilogram
Certifications		EN 50178 CSA-C22.2 No. 142-M UL File No.: E135462 CSA Class No.: 2252-01 IEC/EN 61131-2 UL508 CSA File No.: 012528 UL Category Control No.: NRAQ UL CSA CE CSA-C22.2 No. 0-M
Product Tradename		XIOC
Product Type		Accessory
Product Sub Type		Input card
Features & Functions		
Electric connection type		Screw-/spring clamp connection
Features		Input, voltage Analog outputs configurable Analog inputs configurable
General information		
Admissible range		20.4 – 28.8 V (11.8 – 14.4 V), Power supply
Current consumption		100 mA (typ.), internal (5 V DC), Inputs
Degree of protection		IP20
Number of channels		8, Input
Overvoltage category		II
Pollution degree		2
Protection class		1
Repetition rate		1 s
Residual ripple		≤ 5 %
Resolution		12 Bit (digital)
Type		Analog module
Used with		XC100/200 (expandable with up to 15 XI/OC modules)
Ambient conditions, mechanical		
Impact resistance		500 g/∅ 50 mm ±25 g
Shock resistance		15 g, Mechanical, Shock duration 11 ms
Vibration resistance		10 - 57 Hz, ± 0.075 mm 57 - 150 Hz ± 1.0 mm
Climatic environmental conditions		
Ambient operating temperature - min		0 °C
Ambient operating temperature - max		55 °C
Ambient storage temperature - min		-25 °C
Ambient storage temperature - max		70 °C
Electro magnetic compatibility		
Emitted interference		Class A (according to DIN/EN 55011/22)

Voltage dips		10 ms
<b>Terminal capacities</b>		
Terminals		Optionally, screw terminals or spring-loaded terminals for digital/analog modules Plug-in terminal block
<b>Electrical rating</b>		
Power loss		Max. 0.5 W
Power supply		24 V DC (-15/+20 %), approx. 150 mA
Rated operational voltage		24 (12) V DC
<b>Communication</b>		
Connection type		2-core screened cable (≤ 20 m)
<b>Input/Output</b>		
Conversions		≤ 5 ms
Input		8 Inputs (±10 V)
Input impedance		100 kΩ
Input voltage		-10 - 10 V DC (Input modules)
Number of inputs (analog)		8
Number of outputs (analog)		0
Total error		≤ ±1 % (of the full-scale value), Inputs
<b>Safety</b>		
Explosion safety category for dust		None
Explosion safety category for gas		None
Potential isolation		Analog inputs: Opto-isolated Analog outputs: no
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		0 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		0 W
Rated operational current for specified heat dissipation (In)		0 A
Static heat dissipation, non-current-dependent Pvs		4.8 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

Programmable logic controllers PLC (EG000024) / PLC analogue I/O-module (EC001420)

Number of analogue inputs			8
Number of analogue outputs			0
Analogue inputs configurable			Yes
Analogue outputs configurable			Yes
Input, current			No
Input, voltage			Yes
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
SIL according to IEC 61508			None
Performance level according 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	30
Power consumption		W	
Height		mm	95
Depth		mm	100