Analog I/O module for XC100/200, 24 V DC, 4AI, 2AO(0-10V)



Part no. XIOC-4AI-2AO-U1

262405 4519678

EL Number

(Norway)

(Norway)	
General specifications	
Product name	Eaton XIOC I/O module
Part no.	XIOC-4AI-2AO-U1
EAN	4015082624057
Product Length/Depth	100 millimetre
Product height	95 millimetre
Product width	30 millimetre
Product weight	0.115 kilogram
Certifications	EN 50178 UL File No.: E135462 CE UL508 UL CSA Class No.: 2252-01 IEC/EN 61131-2 CSA CSA-C22.2 No. 0-M CSA-C22.2 No. 142-M CSA File No.: 012528 UL Category Control No.: NRAQ
Product Tradename	XIOC
Product Type	I/O module
Product Sub Type	None
Features & Functions	
Electric connection type	Screw-/spring clamp connection
Features	Input, voltage Analog outputs configurable Output, voltage 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 200 mA, external, Outputs
Degree of protection	IP20
Number of channels	4, Input
Overvoltage category	II
Pollution degree	2
Protection class	1
Repetition rate	1 s
Residual ripple	≤ 5 %
Resolution	12 Bit 14 Bit (Analog outputs, current)
Туре	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
Terminal capacities	
Terminals	Optionally, screw terminals or spring-loaded terminals for digital/analog module
Electrical rating	Plug-in terminal block
Power loss	Max. 1 W
Rated operational voltage	24 (12) V DC
Short-circuit protection	Yes, Short-circuit rating, Outputs
Communication	Too, on ore or out rating, outputs
	Discriptorial block Outrote
Connection type	Plug-in terminal block, Outputs
Interfaces	Terminating resistor: ≤ 2 kΩ
nput/Output	
Conversions	1 ms < 1 ms
Input	4 Inputs (0 - 10 V)
Input impedance	40 kΩ
Input voltage	0 - 10 V DC (Input modules)
Number of inputs (analog)	4
Number of outputs (analog)	2
Output	2 Outputs (0 - 10 V)
Output voltage	0 - 10 V DC
Total error	Normally 0.4 %, Inputs/Outputs
Safety	
	None
Explosion safety category for dust	
Explosion safety category for gas Potential isolation	None Applica custoutes po
r otelitida isolation	Analog outputs: no Between Inputs and Outputs: no Analog inputs: no
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	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	1 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 FTIM 9.0

Technical data ETIM 9.0				
Programmable logic controllers PLC (EG000024) / PLC analogue I/O-module (EC001420)				
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / PLC analog input/output module (ecl@ss13-27-24-22-01 [AKE524019])				
Number of analogue inputs		4		
Number of analogue outputs		2		
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	14		
Output, current		No		
Output, voltage		Yes		
Output signal configurable		No		
Resolution of the analogue outputs	Bit	12		
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		