Product data sheet
Characteristics

BMXAMO0210H
Analog isolated high level output module, Modicon X80, 2 outputs, 0 to 20mA / 4 to 20mA, 10V positive or negative, for severe environments



Main

Range of product	Modicon X80
Product or component type	Analog output module
Product specific application	For severe environments
Electrical connection	20 ways 1 connector
Input output isolation	Isolated

Complementary

Measurement error	0.1 % of full scale 25 °C <= 0.45 % of full scale - 25...70 °C
Temperature drift	30 ppm/°C
Recalibration	Factory calibrated
Minimum crosstalk attenuation	90 DB
Common mode rejection	100 DB
Isolation voltage	1400 V DC between channels and ground 1400 V DC between channels and bus 750 V DC between channels
Detection type	Open circuit 0...20 mA Open circuit 4...20 mA Short circuit +/- 10 V
Load impedance ohmic	<= 600 Ohm 0...20 mA <= 600 Ohm 4...20 mA >= 1000 Ohm +/- 10 V
Output level	High level
Analogue output number	2
Analogue output type	Current: 0...20 mA Current: 4...20 mA Voltage: +/- 10 V
Analogue output resolution	15 bits + sign
Supply	Internal power supply via rack
Conversion time	<= 1 ms
Maximum conversion value	+/- 11.25 V +/- 10 V 0...24 mA 0...20 mA 0...24 mA 4...20 mA
Fallback mode	Configurable Predefined
MTBF reliability	1300000 H
Operating altitude	0...2000 m 2000...5000 m with derating factor

Status LED	1 LED (green) RUN 1 LED per channel (green) channel diagnostic 1 LED (red) ERR 1 LED (red) I/O
Net weight	0.144 Kg
Power consumption in W	2.1 W 24 V DC typical 2.8 W 24 V DC maximum 0.35 W 3.3 V DC typical 0.48 W 3.3 V DC maximum
Current consumption	150 mA at 3.3 V DC 110 mA at 24 V DC

Environment

Vibration resistance	3 gn
Shock resistance	30 gn
Ambient air temperature for storage	-40…85 °C
Ambient air temperature for operation	-25…70 °C
Relative humidity	5…95 % at 55 °C without condensation
IP degree of protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product certifications	CE[RETURN]RCM[RETURN]CSA[RETURN]EAC[RETURN]Merchant Navy[RETURN]UL[RETURN
Standards	IEC 61010-2-201 IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201
Environmental characteristic	Gas resistant class Gx Gas resistant class 3C4 Dust resistant class 3S4 Sand resistant class 3S4 Salt resistant level 2 Mold growth resistant class 3B2 Fungal spore resistant class 3B2 Hazardous location
Protective treatment	Conformal coating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 Cm
Package 1 Width	11.000 Cm
Package 1 Length	12.000 Cm
Package 1 Weight	183.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	3.063 Kg

Offer Sustainability

Recyclability potential, in %	3
Total lifecycle Carbon footprint	150 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	23.3818545455
Carbon footprint of the manufacturing phase [A1 to A3]	23 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0239297455
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0487290182
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	125.9368435754
Carbon footprint of the use phase [B2, B3, B4, B6]	126 kg CO2 eq.

Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.3247196364
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	150
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised