

analog isolated high level input module, Modicon X80, 4 inputs, 0 to 20mA, 4 to 20mA, 10V positive or negative

BMXAMI0410

Product availability: Stock - Normally stocked in distribution facility

Main

Range Of Product	Modicon X80
Product Or Component Type	Analog input module
Electrical Connection	20 ways 1 connector
Isolation Between Channels	Isolated
Input Level	High level
Analogue Input Number	4
Analogue Input Type	Current +/- 20 mA Current 020 mA Current 420 mA Voltage +/- 10 V Voltage +/- 5 V Voltage 010 V Voltage 05 V Voltage 15 V

Complementary

Analog/Digital Conversion	24 bits
Analogue Input Resolution	16 bits
Permitted Overload On Inputs	+/- 30 V +/- 10 V
	+/- 30 V +/- 5 V
	+/- 30 V 010 V
	+/- 30 V 05 V
	+/- 30 V 15 V
	+/- 90 mA +/- 20 mA
	+/- 90 mA 020 mA
	+/- 90 mA 420 mA
Input Impedance	10 MOhm in voltage mode
	250 Ohm + 3.650 Ohm internal protective resistor in current mode
Precision Of Internal Conversion Resistor	0.1 % - 15 ppm/°C
Type Of Filter	First order digital filtering
Fast Read Cycle Time	1 ms + 1 ms x number of channels used
Nominal Read Cycle Time	5 ms for 4 channels

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Measurement Error	<= 0.1 % of full scale +/- 10 V 060 °C <= 0.1 % of full scale +/- 5 V 060 °C
	<= 0.1 % of full scale 010 V 060 °C
	<= 0.1 % of full scale 05 V 060 °C
	<= 0.1 % of full scale 15 V 060 °C
	<= 0.3 % of full scale +/- 20 mA 060 °C
	<= 0.3 % of full scale 020 mA 060 °C <= 0.3 % of full scale 420 mA 060 °C
	0.075 % of full scale +/- 10 V 25 °C
	0.075 % of full scale +/- 5 V 25 °C
	0.075 % of full scale 010 V 25 °C
	0.075 % of full scale 05 V 25 °C
	0.075 % of full scale 15 V 25 °C
	0.15 % of full scale +/- 20 mA 25 °C 0.15 % of full scale 020 mA 25 °C
	0.15 % of full scale 420 mA 25 °C
Temperature Drift	15 ppm/°C +/- 10 V
	15 ppm/°C +/- 5 V
	15 ppm/°C 010 V 15 ppm/°C 05 V
	15 ppm/°C 15 V
	30 ppm/°C +/- 20 mA
	30 ppm/°C 020 mA
_	30 ppm/°C 420 mA
Recalibration	Internal
Minimum Crosstalk Attenuation	80 dB
Common Mode Rejection	90 dB
Digital Value Format	- 32768 to + 32767 in maximum user scale +/- 10000 by default
Isolation Voltage	300 V DC between channels
	1400 V DC between channels and ground 1400 V DC between channels and bus
Measurement Resolution	0.35 mV +/- 10 V
	0.35 mV +/- 5 V 0.35 mV 010 V
	0.35 mV 070 V
	0.35 mV 15 V
	0.92 μA +/- 20 mA
	0.92 μA 020 mA 0.92 μA 420 mA
Maximum Conversion Value	+/- 11.4 V +/- 10 V
	+/- 11.4 V +/- 5 V
	+/- 11.4 V 010 V
	+/- 11.4 V 05 V
	+/- 11.4 V 15 V 030 mA +/- 20 mA
	030 mA 020 mA
	030 mA 420 mA
Mtbf Reliability	1200000 H
Operating Altitude	06561.68 ft (02000 m) 20005000 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	0.32 lb(US) (0.143 kg)
Power Consumption In W	0.82 W 24 V DC typical
	1.30 W 24 V DC maximum
	0.32 W 3.3 V DC typical
	0.48 W 3.3 V DC maximum
Current Consumption	150 mA 3.3 V DC
	45 mA 24 V DC

Environment

Vibration Resistance	3 gn
Shock Resistance	30 gn
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Ambient Air Temperature For Operation	32140 °F (060 °C)
Relative Humidity	595 % 131 °F (55 °C) without condensation
Ip Degree Of Protection	IP20
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Product Certifications	CE RCM CSA EAC Merchant Navy UL
Standards	EN/IEC 61010-2-201 EN/IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201

Ordering and shipping details

Category	US1PC3418160
Discount Schedule	PC34
Gtin	3595863910179
Returnability	Yes
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.20 in (5.600 cm)
Package 1 Width	4.37 in (11.100 cm)
Package 1 Length	4.61 in (11.700 cm)
Package 1 Weight	6.07 oz (172.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	6.44 lb(US) (2.923 kg)

Contractual warranty

Warranty 18 months	
warranty 18 months	

Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Well-being performance

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Rohs Exemption Information	Yes	

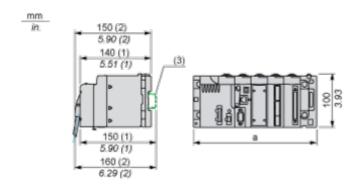
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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Dimensions Drawings

Modules Mounted on Racks

Dimensions

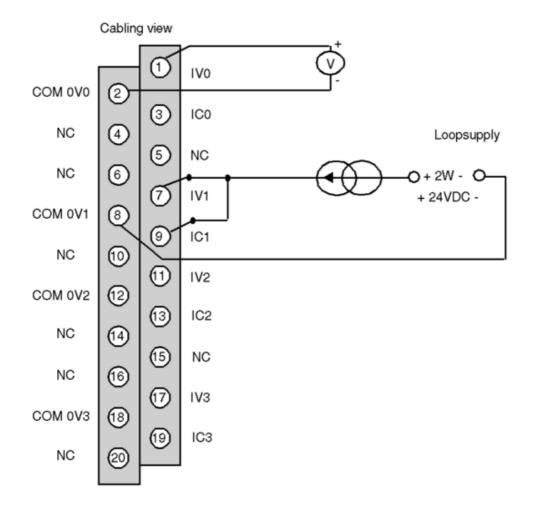


- (1) With removable terminal block (cage, screw or spring).
- (2) With FCN connector.
- (3) On AM1 ED rail: 35 mm wide, 15 mm deep. Only possible with BMXXBP0400/0400H/0600/0600H/0800/0800H rack.

Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	09.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200 and BMXXBP1200H	503.2	19.81

Connections and Schema

Wiring Diagram



IVx + pole input for channel x COM 0Vx - pole input for channel x ICx current reading resistor + input Channel 0 voltage sensor Channel 1 2-wire current sensor