Product data sheet Characteristics

BMXAMI0810

analog isolated high level input module, Modicon X80, 8 inputs, 0 to 20mA, 4 to 20mA, 10V positive or negative



Main

Wilding	
Range of Product	Modicon X80
Product or Component Type	Analog input module
Electrical connection	28 ways 1 connector
Isolation between channels	Isolated
Input level	High level
Analogue input number	8
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

Complementary	
Analog/digital conversion	16 bits
Analogue input resolution	15 bits + sign
Permitted overload on inputs	+/- 30 mA 020 mA +/- 30 mA 420 mA +/- 30 V +/- 10 V +/- 30 V 010 V +/- 30 V 05 V +/- 30 V 15 V +/- 30 mA +/- 20 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	9 ms for 8 channels
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 15 V 060 °C <= 0.3 % of full scale 020 mA 060 °C <= 0.3 % of full scale 020 mA 060 °C <= 0.3 % of full scale 420 mA 060 °C 0.15 % of full scale 420 mA 25 °C 0.15 % of full scale 020 mA 25 °C 0.15 % of full scale 420 mA 25 °C 0.075 % of full scale 420 mA 25 °C 0.075 % of full scale 010 V 25 °C 0.075 % of full scale 010 V 25 °C 0.075 % of full scale 15 V 25 °C 0.075 % of full scale 15 V 25 °C 0.075 % of full scale 15 V 25 °C
Temperature drift	30 ppm/°C +/- 10 V 30 ppm/°C +/- 5 V 30 ppm/°C 010 V 30 ppm/°C 05 V 30 ppm/°C 15 V 50 ppm/°C +/- 20 mA 50 ppm/°C 020 mA 50 ppm/°C 420 mA

Minimum crosstalk attenuation	80 dB
Common mode rejection	80 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	0.36 mV +/- 10 V 0.36 mV 010 V 0.36 mV 05 V 0.36 mV 15 V 0.36 mV +/- 5 V 1.4 μA +/- 20 mA 1.4 μA 020 mA 1.4 μA 420 mA
Maximum conversion value	+/- 11.4 V +/- 10 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 030 mA +/- 5 V
MTBF reliability	900000 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	0.36 lb(US) (0.165 kg)
Power consumption in W	1.06 W 24 V DC typical 1.50 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 54 mA 24 V DC

Environment

3 gn
30 gn
-40185 °F (-4085 °C)
32140 °F (060 °C)
595 % 131 °F (55 °C) without condensation
IP20
2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
CE[RETURN]RCM[RETURN]CSA[RETURN]EAC[RETURN]Merchant Navy[RETURN]UL
EN/IEC 61010-2-201 EN/IEC 61131-2 UL 61010-2-201 CSA C22.2 No 61010-2-201

Ordering and shipping details

are are a supported and a second	
Category	18160-MODICON M340
Discount Schedule	PC34
GTIN	3595864081564
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	5.61 oz (159.000 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	5.96 lb(US) (2.702 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	108.03 lb(US) (49.000 kg)

Offer Sustainability

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	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	€Yes	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	

Contractual warranty

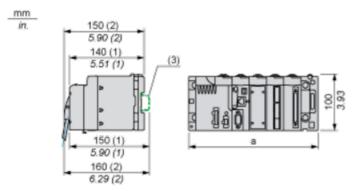
Contractual warranty	
Warranty	18 months

Product data sheet Dimensions Drawings

BMXAMI0810

Modules Mounted on Racks

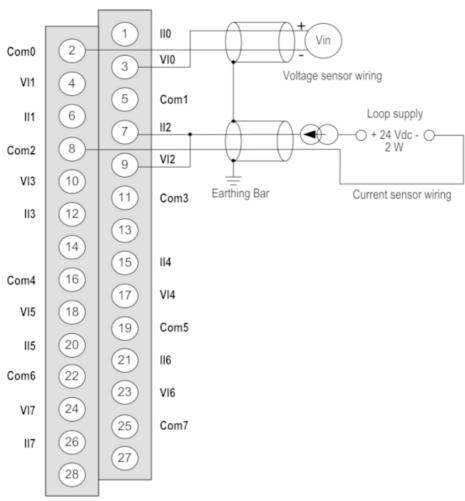
Dimensions



- (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

Wiring Diagram



VIx + pole input for channel x.

COMx - pole input for channel x, COMx are connected together internally.

IIx current reading resistor + input.

Channel 0 voltage sensor.

Channel 1 2-wire current sensor.