Product data sheet Characteristics

BMXAMI0800

non-isolated analog input module X80 - 8 inputs - fast speed





Main

Range of Product	Modicon X80
Product or Component Type	Analog input module
Electrical connection	28 ways 1 connector
Isolation between channels	Non 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 15 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 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 +/- 20 mA 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 0.15 % 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 -/- 10 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 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

Recalibration	Factory calibrated	
Minimum crosstalk attenuation	80 dB	
EMI/RFI Noise rejection (100 kHz to 10 MHz)	100 dB	
Digital value format	- 32768 to + 32767 in maximum user scale +/- 10000 by default	
Isolation voltage	1400 V DC between channels and ground 1400 V DC between channels and bus 50 V DC between channels	
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	1700000 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	0.90 W 24 V DC typical 1.10 W 24 V DC maximum 0.32 W 3.3 V DC typical 0.48 W 3.3 V DC maximum	

Environment

2		
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	18160-MODICON M340
Discount Schedule	PC34
GTIN	3595864081557
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	4.41 in (11.200 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	5.43 oz (154.000 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	5.83 lb(US) (2.644 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	119.05 lb(US) (54.000 kg)

Offer Sustainability

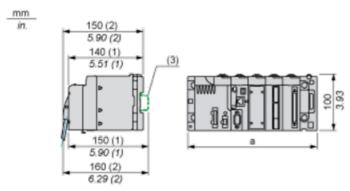
Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	[☑] China RoHS Declaration	
RoHS exemption information	₽	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	

Contractual warranty		
Warranty	18 months	

BMXAMI0800

Modules Mounted on Racks

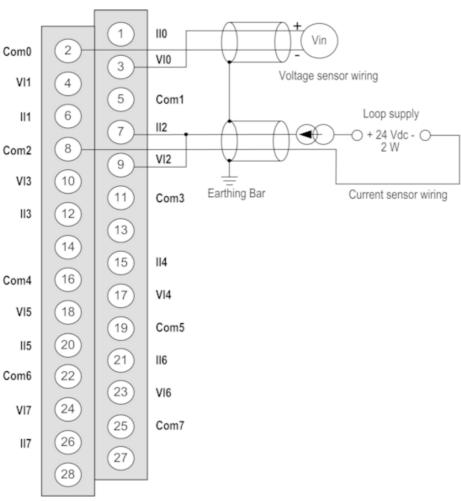
Dimensions



- (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.