

# BMXSAI0410

safety analog input module, Modicon X80, 4 isolated inputs, 4 to 20mA



## 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 4...20 mA

## Complementary

Analog/digital conversion	16 bits
Analogue input resolution	13 bits 0...12500 counts
Permitted overload on inputs	25 mA 4...20 mA
Input impedance	286 Ohm
Precision of internal conversion resistor	0.1 % - 15 ppm/°C
Type of filter	Second order digital filtering
Nominal read cycle time	6 ms for 4 channels
Measurement error	<= 0.3 % of full scale 4...20 mA - 25...60 °C
Temperature drift	30 ppm/°C 4...20 mA
Recalibration	Internal
Minimum crosstalk attenuation	120 dB
Digital value format	+/- 32000 in user scale +/- 10000 by default
Isolation voltage	500 V DC between channels 1500 V DC between channels and ground 1500 V DC between channels and bus
Measurement resolution	2 µA 4...20 mA
Maximum conversion value	0...25 mA 4...20 mA
MTBF reliability	463000 H
Operating altitude	0...6561.68 ft (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	0.32 lb(US) (0.143 kg)
Current consumption	200 mA 3.3 V DC 115 mA 24 V DC

## Environment

Vibration resistance	3 gn
Shock resistance	15 gn
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Ambient Air Temperature for Operation	-13...140 °F (-25...60 °C)
Relative humidity	5...95 % 131 °F (55 °C) without condensation
IP Degree of Protection	IP20

Product Certifications	TÜV[RETURN]CSA[RETURN]EAC[RETURN]RCM[RETURN]UL[RETURN]ATEX[RETURN]Merch Navy
Standards	CSA C22.2 No 61010-2-201 EN/IEC 61131-2 EN/IEC 61010-2-201 UL 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 Fungal spore resistant class 3B2 IEC 60721-3-3

## Ordering and shipping details

Category	18161-MODICON M580 CONTROLLERS HSBY
Discount Schedule	PC34
GTIN	3606481204943
Returnability	No
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	7.09 in (18.000 cm)
Package 1 Length	10.24 in (26.000 cm)
Package 1 Weight	12.13 oz (344.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	7.18 lb(US) (3.259 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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