Product datasheet

Specifications

analog isolated high level input module, Modicon X80, 8 HART inputs, 4 to 20mA, for severe environments

BMEAHI0812H

Main

Range Of Product	Modicon X80
Product Or Component Type	Analog input module

Complementary

Application Specific I/O	HART
Product Compatibility	BMEP58... processor BMXFTB20... terminal block ABE7CPA31 ABE7CPA02 ABE7CPA03 Head module BMECRA31210 BMEXBP... backplane
Electrical Connection	20 ways terminal block Telefast
Isolation Between Channels	Isolated
Analogue Input Number	8
Analogue Input Type	Current 4...20 mA
Analogue Input Resolution	15 bits + sign
Input Impedance	250 Ohm internally protective resistor (3.6 to 50 Ohm)
Measurement Error	0.15 % of full scale 25 °C 0.55 % of full scale - 25...70 °C
Temperature Drift	50 ppm/°C
Isolation Voltage	1000 V DC for 60 s between channels 1400 V DC for 60 s between channels and ground 1400 V DC for 60 s between channels and bus
Checks	Broken wire detection
Topology	Point-to-point
Function Available	I/O mapping
Net Weight	0.233 kg

Environment

Ambient Air Temperature For Operation	-25…70 °C
Ambient Air Temperature For Storage	-40…85 °C
Operating Altitude	0...2000 m 2000...5000 m with derating factor
Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive

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Product Certifications	CE
	UL
	CSA
	RCM
	EAC
	Merchant Navy
	ATEX zone 2/22
	IECEx zone 2/22

Standards	EN/IEC 61131-2
	EN/IEC 61010-2-201
	UL 61010-2-201
	CSA C22.2 No 61010-2-201
	IACS E10
	EN/IEC 61000-6-5, interface type 1 and type 2
	EN/IEC 61850-3, location G
	EN/IEC 60079-0

Environmental Characteristic	Gas resistant class Gx conforming to ISA S71.04
	Gas resistant class 3C4 conforming to IEC 60721-3-3
	Dust resistant class 3S4 conforming to IEC 60721-3-3
	Sand resistant class 3S4 conforming to IEC 60721-3-3
	Salt resistant level 2 conforming to IEC 68252
	Mold growth resistant class 3B2 conforming to IEC 60721-3-3
	Fungal spore resistant class 3B2 conforming to IEC 60721-3-3
	Hazardous location class I division 2

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	239.000 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	3.870 kg

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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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Guide to assess a product's sustainability >

Well-being performance

✓	Mercury Free	
✓	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