

# Product data sheet

Specifications



## analog input module X80 - 8 inputs HART - current Isolated

BMEAHI0812

### 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 BMEXBP... backplane ABE7CPA02 ABE7CPA03 Head module BMECRA31210
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 <= 0.3 % of full scale 0...60 °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	0...60 °C
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
IP degree of protection	IP20

Packing Units

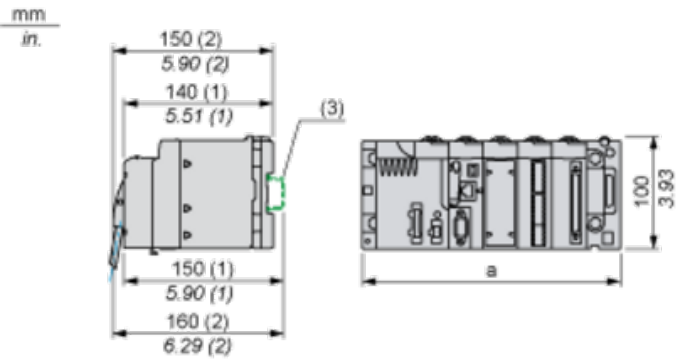
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.700 cm
Package 1 Width	11.200 cm
Package 1 Length	12.000 cm
Package 1 Weight	229.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.770 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Modules Mounted on Racks

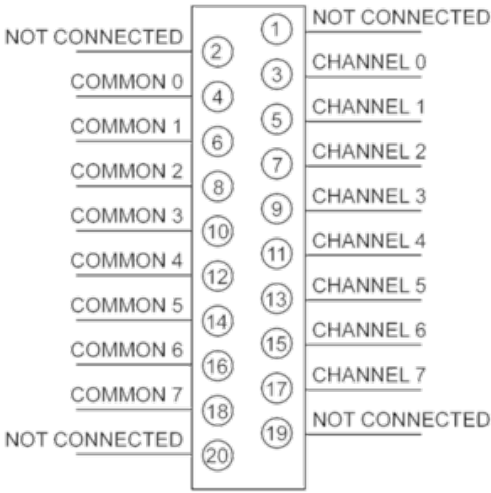
Dimensions



- (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 BMEXBP0400/0400H/0800/0800H/1200/1200H rack.

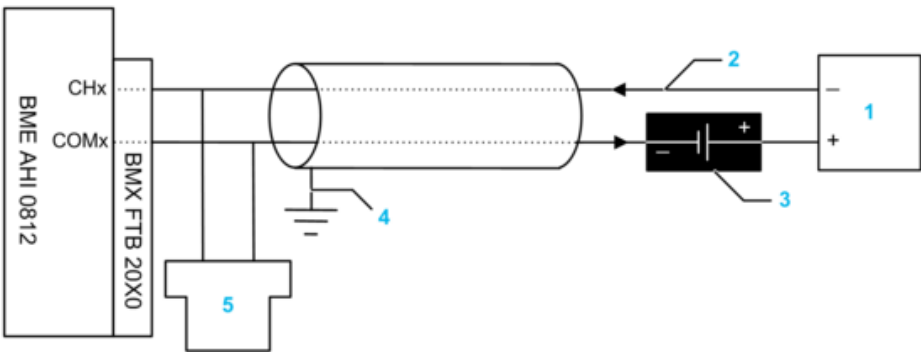
	a (in mm)	a (in in.)
BMEXBP0400 and BMEXBP0400H	242.4	09.54
BMEXBP0800 and BMEXBP0800H	372.8	14.68
BMEXBP1200 and BMEXBP1200H	503.2	19.81

Module Connection



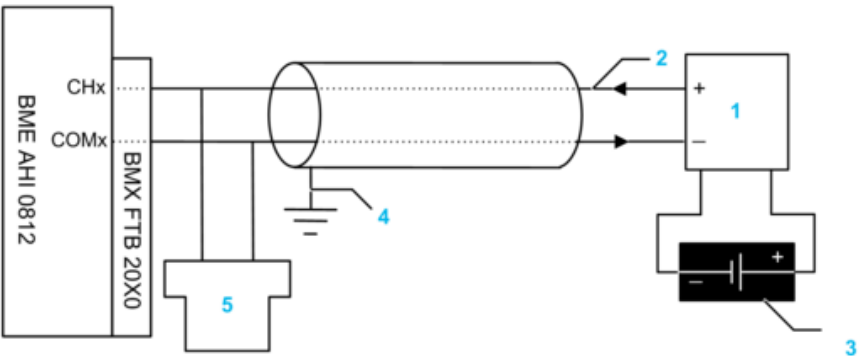
Input Circuit Diagram

With 2-Wire Transmitter



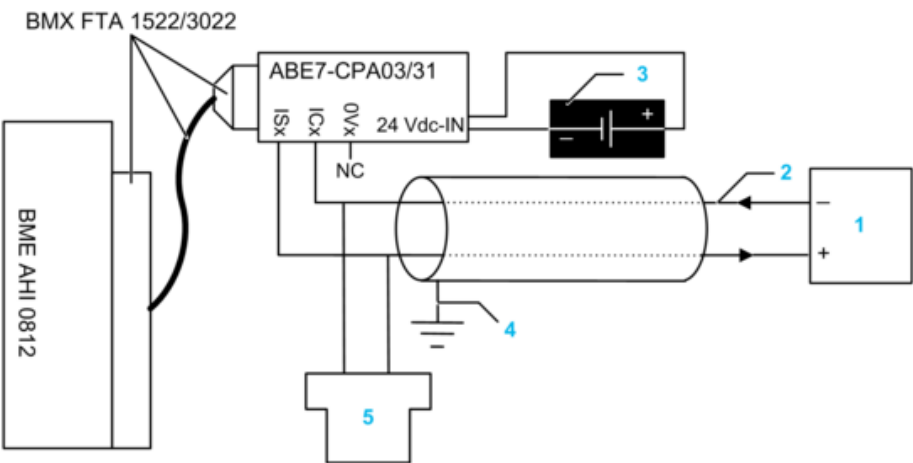
- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

With 4-Wire Transmitter



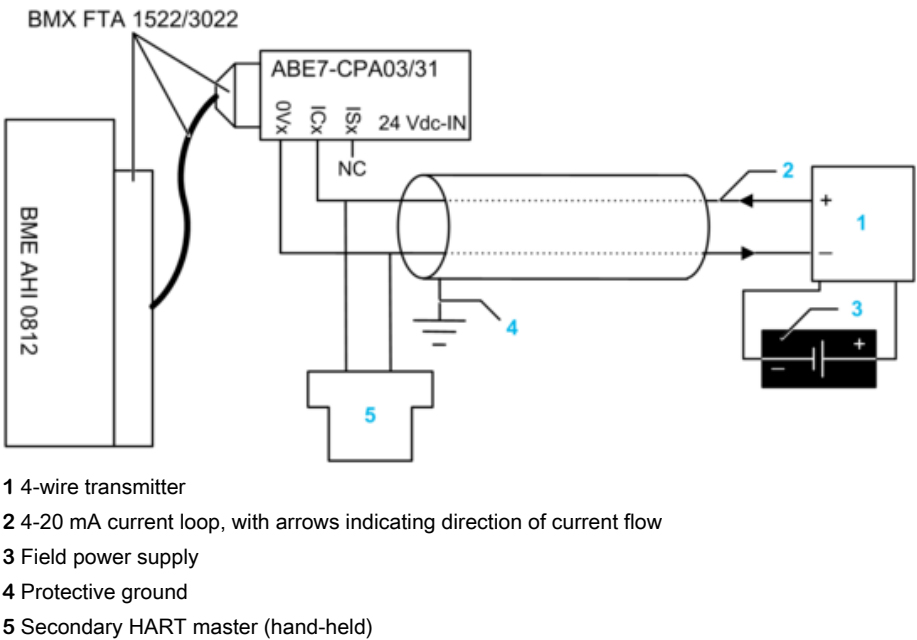
- 1 4-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 Field power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

With 2-Wire Transmitter and TELEFAST Connector with Power Supply

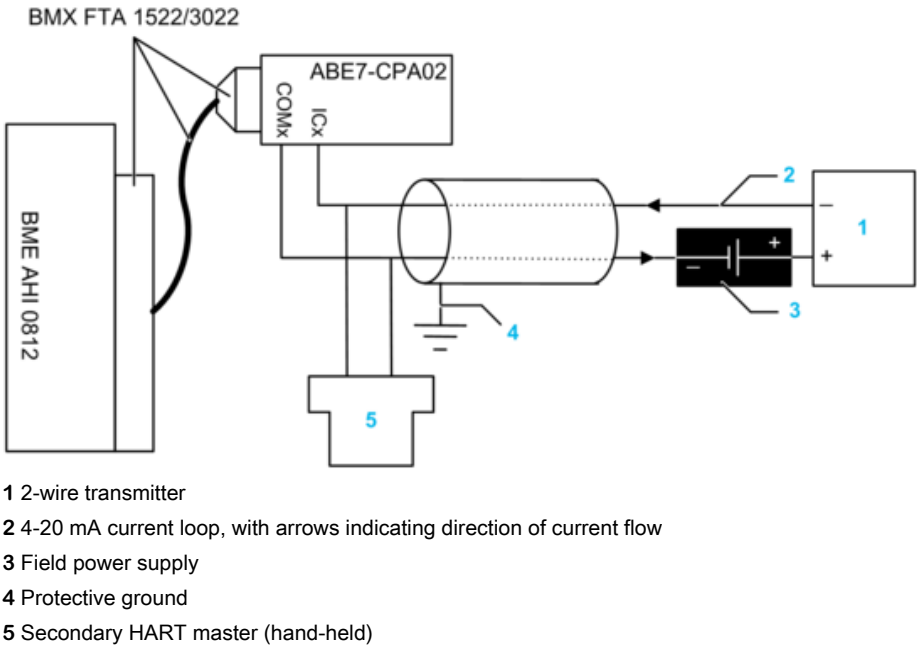


- 1 2-wire transmitter
- 2 4-20 mA current loop, with arrows indicating direction of current flow
- 3 24 Vdc power supply
- 4 Protective ground
- 5 Secondary HART master (hand-held)

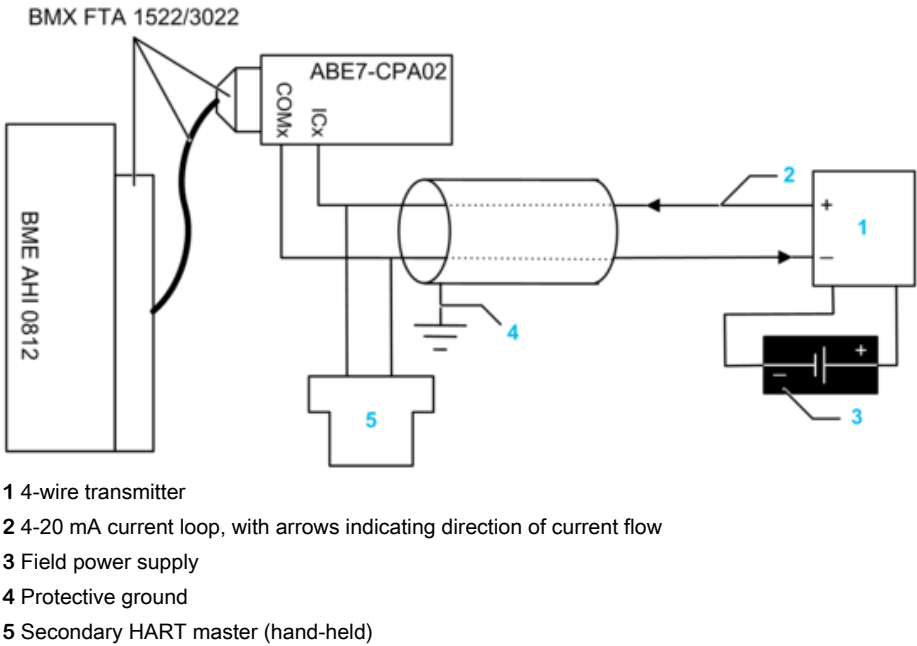
With 4-Wire Transmitter and TELEFAST Connector with Power Supply



With 2-Wire Transmitter and TELEFAST Connector without Power Supply



With 4-Wire Transmitter and TELEFAST Connector without Power Supply



Recommended replacement(s)