

# BMXAMM0600H

mixed analog I/O module M340 - 4 inputs 0..20 mA -  
2 outputs 0..20 mA



## Main

Range of product	Modicon X80
Product or component type	Mixed analog I/O module
Product specific application	For severe environments
Electrical connection	1 connector 20 ways
Input output isolation	Non isolated
Input level	High level
Analogue input number	4
Analogue input type	Current 0...20 mA Current 4...20 mA Voltage +/- 10 V Voltage 0...10 V Voltage 0...5 V Voltage 1...5 V

## Complementary

Analogue input resolution	12 bits 0...20 mA 12 bits 0...5 V 12 bits 1...5 V 12 bits 4...20 mA 13 bits 0...10 V 14 bits +/- 10 V
Permitted overload on inputs	+/- 30 mA 0...20 mA +/- 30 mA 4...20 mA +/- 30 V +/- 10 V +/- 30 V 0...10 V +/- 30 V 0...5 V +/- 30 V 1...5 V
Internal conversion resistor	250 Ohm
Precision of internal conversion resistor	0.1 % - 15 ppm/°C
Type of filter	First order digital filtering by firmware
Fast read cycle time	1 ms + 1 ms x number of channels used
Nominal read cycle time	5 ms for 4 channels
Measurement error	0.25 % of full scale 0...20 mA 25 °C 0.25 % of full scale 4...20 mA 25 °C <= 0.4 % of full scale +/- 10 V - 25...70 °C <= 0.4 % of full scale 0...10 V - 25...70 °C <= 0.4 % of full scale 0...5 V - 25...70 °C <= 0.4 % of full scale 1...5 V - 25...70 °C <= 0.6 % of full scale 0...20 mA - 25...70 °C <= 0.6 % of full scale 4...20 mA - 25...70 °C <= 0.8 % of full scale +/- 10 V - 25...70 °C <= 0.8 % of full scale 0...20 mA - 25...70 °C <= 0.8 % of full scale 4...20 mA - 25...70 °C 0.25 % of full scale 0...10 V 25 °C 0.25 % of full scale 0...5 V 25 °C 0.25 % of full scale 1...5 V 25 °C 0.35 % of full scale 0...20 mA 25 °C 0.35 % of full scale 4...20 mA 25 °C 0.25 % of full scale +/- 10 V +/- 10 V 25 °C
Temperature drift	100 ppm/°C +/- 10 V 100 ppm/°C 0...20 mA 100 ppm/°C 4...20 mA 30 ppm/°C +/- 10 V 30 ppm/°C 0...10 V 30 ppm/°C 0...5 V 30 ppm/°C 1...5 V 50 ppm/°C 0...20 mA

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	50 ppm/°C 4...20 mA
Recalibration	Factory calibrated on outputs Internal on inputs
Isolation voltage	1400 V DC between channels and ground 1400 V DC between channels and bus 750 V DC between group of I/O channels
Output level	High level
Analogue output number	2
Analogue output type	Current 0...20 mA Current 4...20 mA Voltage +/- 10 V
Analogue output resolution	11 bits 0...20 mA 11 bits 4...20 mA 12 bits +/- 10 V
Conversion time	<= 2 ms
Maximum conversion value	+/- 11.25 V 0...10 V +/- 11.25 V 0...5 V +/- 11.25 V 1...5 V 0...24 mA 0...20 mA 0...24 mA 4...20 mA 0...30 mA 0...20 mA 0...30 mA 4...20 mA +/- 11.25 V +/- 10 V +/- 10 V
Fallback mode	Configurable Predefined
Status LED	1 LED green RUN 1 LED per channel green channel diagnostic 1 LED red ERR 1 LED red I/O
Product weight	0.155 kg
Current consumption	150 mA at 3.3 V DC 130 mA at 24 V DC

## Environment

vibration resistance	3 gn
shock resistance	30 gn
ambient air temperature for storage	-40...85 °C
ambient air temperature for operation	-25...70 °C
relative humidity	5...95 % 55 °C without condensation
IP degree of protection	IP20
directives	2012/19/EU - WEEE directive 2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive
product certifications	ATEX CE CSA UL RCM IEC-Ex Merchant Navy EAC
standards	EN 61000-6-2 EN 61000-6-4 EN 61131-2 EN 61010-2-201
protective treatment	Conformal coating Humiseal 1A33 TC
environmental characteristic	Corrosion resistance Dust resistant
operating altitude	0...2000 m 2000...5000 m (with derating factor)

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0911 - Schneider Electric declaration of conformity



**U/IOx+** pole output for channel x

**COMOx-** pole output for channel x

\* The current loop is self-powered by the output and does not request any external supply.