

Schneider Service Manual

BMXAMI0410

1. Description

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3. Product Information

BMXAMI0410

analog input module M340 - 4 inputs - high speed

Main

Range of product Modicon X80

Product or component type Analog input module

Electrical connection 1 connector 20 ways

Input output isolation Isolated

Input level High level

Analogue input number 4

Analogue input type Current +/- 20 mA

Current 0...20 mA

Current 4...20 mA

Voltage +/- 10 V

Voltage +/- 5 V

Voltage 0...10 V

Voltage 0...5 V

Voltage 1...5 V

Complementary

Analog/Digital conversion 24 bits

Analogue input resolution 16 bits

Input impedance 10 MOhm

Permitted overload on inputs +/- 30 V +/- 10 V

+/- 30 V +/- 5 V

+/- 30 V 0...10 V

+/- 30 V 0...5 V

+/- 30 V 1...5 V

+/- 90 mA +/- 20 mA

+/- 90 mA 0...20 mA

+/- 90 mA 4...20 mA

Internal conversion resistor 250 Ohm

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 5 ms for 4 channels

Measurement error <= 0.1 % of full scale +/- 10 V 0...60 °C

<= 0.1 % of full scale +/- 5 V 0...60 °C

<= 0.1 % of full scale 0...10 V 0...60 °C

<= 0.1 % of full scale 0...5 V 0...60 °C

<= 0.1 % of full scale 1...5 V 0...60 °C

<= 0.3 % of full scale +/- 20 mA 0...60 °C

<= 0.3 % of full scale 0...20 mA 0...60 °C

<= 0.3 % of full scale 4...20 mA 0...60 °C

0.075 % of full scale +/- 10 V 25 °C

0.075 % of full scale +/- 5 V 25 °C

0.075 % of full scale 0...10 V 25 °C

0.075 % of full scale 0...5 V 25 °C

0.075 % of full scale 1...5 V 25 °C

0.15 % of full scale +/- 20 mA 25 °C

0.15 % of full scale 0...20 mA 25 °C

0.15 % of full scale 4...20 mA 25 °C

Temperature drift 15 ppm/°C +/- 10 V

15 ppm/°C +/- 5 V

15 ppm/°C 0...10 V

15 ppm/°C 0...5 V

15 ppm/°C 1...5 V

30 ppm/°C +/- 20 mA

30 ppm/°C 0...20 mA

30 ppm/°C 4...20 mA

Recalibration Internal

Common mode between channels 120 dB

Digital value format +/- 32000 in user scale

+/- 10000 by default

Isolation voltage 300 V DC between channels

1400 V DC between channels and ground

1400 V DC between channels and bus

Measurement resolution 0.35 mV +/- 10 V

0.35 mV +/- 5 V

0.35 mV 0...10 V

0.35 mV 0...5 V

0.35 mV 1...5 V

0.92 µA +/- 20 mA

0.92 µA 0...20 mA

0.92 µA 4...20 mA

Maximum conversion value +/- 11.4 V +/- 10 V

+/- 11.4 V +/- 5 V

+/- 11.4 V 0...10 V

+/- 11.4 V 0...5 V

+/- 11.4 V 1...5 V

0...30 mA +/- 20 mA

0...30 mA 0...20 mA

0...30 mA 4...20 mA

Status LED 1 LED green RUN

1 LED per channel green channel diagnostic

1 LED red ERR

1 LED red I/O

Product weight 0.143 kg

Current consumption 150 mA at 3.3 V DC

45 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 0...60 °C

Relative humidity 5...95 % without condensation

IP degree of protection IP20

Product certifications Merchant Navy

RCM

UL

CSA

EAC

CE

Standards EN/IEC 61131-2

CSA C22.2 No 61010-2-201

EN/IEC 61010-2-201

UL 61010-2-201

Protective treatment TC

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 0722 - Schneider Electric declaration of conformity