

BMXAMO0802H

analog non isolated high level output module,
Modicon X80, 8 outputs, 0 to 20mA, 4 to 20mA,
for severe environments



Main

| | |
|------------------------------|-------------------------|
| Range of product | Modicon X80 |
| Product or component type | Analog output module |
| Product specific application | For severe environments |
| Electrical connection | 20 ways 1 connector |
| Isolation between channels | Non isolated |

Complementary

| | |
|-------------------------------|---|
| Measurement error | $\leq 0.45\%$ of full scale - 25...70 °C 0.1 % of full scale 25 °C |
| Temperature drift | 45 ppm/°C 0...20 mA 45 ppm/°C 4...20 mA |
| Minimum crosstalk attenuation | 80 dB |
| Common mode rejection | 80 dB |
| Isolation voltage | 1400 V DC between channels and ground 1400 V DC between channels and bus |
| Detection type | Open circuit 4...20 mA Short circuit 0...20 mA |
| Load impedance ohmic | $\leq 350\ \Omega$ 0...20 mA $\leq 350\ \Omega$ 4...20 mA |
| Analogue output number | 8 |
| Analogue output type | Current: 0...20 mA Current: 4...20 mA |
| Analogue output resolution | 16 bits |
| Supply | Internal power supply via rack |
| Conversion time | $\leq 4\ \text{ms}$ |
| Maximum conversion value | 0...21 mA 0...20 mA 0...21 mA 4...20 mA |
| Fallback mode | Configurable Predefined |
| MTBF reliability | 1500000 H |
| Operating altitude | 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 | 0.15 kg |
| Power consumption in W | 3.6 W 24 V DC typical 3.9 W 24 V DC maximum 0.35 W 3.3 V DC typical 0.48 W 3.3 V DC maximum |
| Current consumption | 150 mA at 3.3 V DC 135 mA at 24 V DC |

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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 % at 55 °C without condensation |
| IP degree of protection | IP20 |
| Product certifications | Merchant Navy[RETURN]ATEX[RETURN]CE[RETURN]CSA[RETURN]EAC[RETURN]RCM[RETURN]IEC-Ex[RETURN]UL |
| Standards | EN 61131-2 EN 61000-6-4 EN 61000-6-2 EN 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 Hazardous location class I division 2 |
| Protective treatment | Conformal coating |

Packing Units

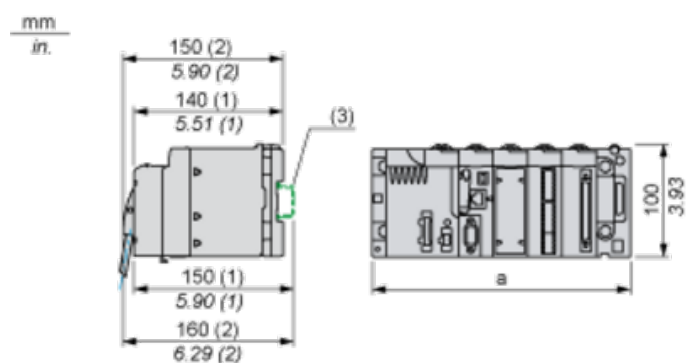
| | |
|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.300 cm |
| Package 1 Width | 11.000 cm |
| Package 1 Length | 11.500 cm |
| Package 1 Weight | 180.000 g |
| Unit Type of Package 2 | S02 |
| Number of Units 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 | 3.080 kg |

Offer Sustainability

| | |
|----------------------------|---|
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| 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



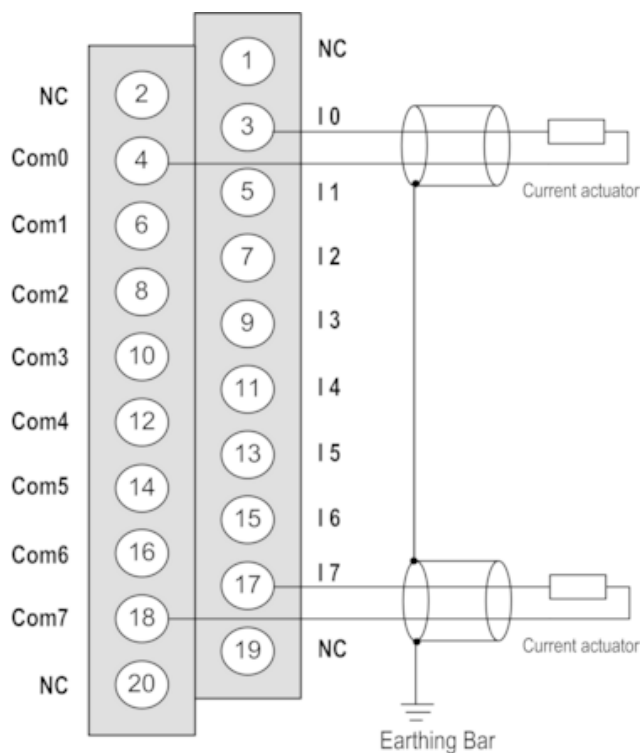
(1) With removable terminal block (cage, screw or spring).

(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 |

Wiring Diagram



Ix + pole input for channel x.

COMx - pole input for channel x, COMx are connected together internally.

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