Product datasheet

Specifications

Analog output module, Modicon M238 logic controller, 1 voltage/current, 1 screw terminal block

TM2AMO1HT

⚠ Discontinued on: 23 Jan 2021

⚠ End-of-service on: 30 Jun 2024

⚠ **Discontinued - Service only**

Main

Range of product	Modicon M238 logic controller
Product or component type	Analog output module
Analogue output number	1
Analogue output type	Current: 4...20 mA Voltage: 0...10 V

Complementary

Range compatibility	Advantys OTB Twido
Analogue output resolution	12 bits
LSB value	2.5 mV voltage voltage 4.8 µA current current
load type	Resistive
Load impedance ohmic	>= 2000 Ohm voltage <= 300 Ohm current
Stabilisation time	10 ms
Conversion time	10 ms + 1 controller cycle time
Measurement error	+/- 0.2 % of full scale at 25 °C
Temperature coefficient	+/-0.015 %FS/°C
Repeat accuracy	+/-0.5 %FS
Non-linearity	+/- 0.2 %FS
Output ripple	<= 1 LSB
Total error	+/-1 %FS
Type of cable	Twisted shielded cable
Insulation between channel and internal logic	Photocoupler
Supply	External supply
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.2…30 V
Electrical connection	1 removable screw terminal block
Current consumption	50 mA at 5 V DC internal 40 mA at 24 V DC external
Net weight	0.085 kg

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Environment

Dielectric strength	500 V between the I/O and the external supply circuit 500 V between the I/O and internal logic
Width	23.5 mm
Depth	70 mm
Height	90 mm

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.3 cm
Package 1 Width	10.3 cm
Package 1 Length	12.5 cm
Package 1 Weight	196.0 g

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained 〉

How we assess product sustainability 〉

Use Better

Materials and Substances

EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

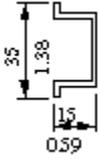### Repack and remanufacture

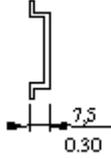|	
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**

Dimensions Drawings

Analog Output Module (1-channel, Voltage/Current)

Dimensions

14.6 / 0.57
70 / 2.76
73.5 / 2.90
81 / 3.19
3.8 / 0.15
23.5 / 0.93
90 / 3.54
4.5 * / 0.18
mm / in

AM1DP200 DIN 7.5 / 0.30
AM1DE200 DIN 15 / 0.59

NOTE: * 8.5 mm (0.33 in) when the clip-on lock is pulled out.

Mounting and Clearance

DIN Rail Mounting

Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface
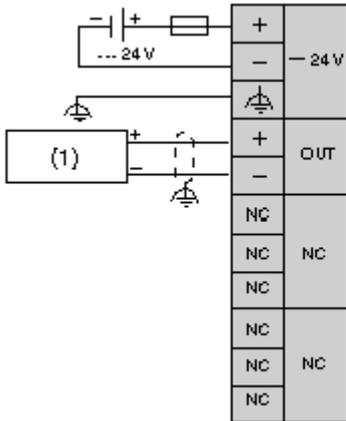
Mounting Hole Layout
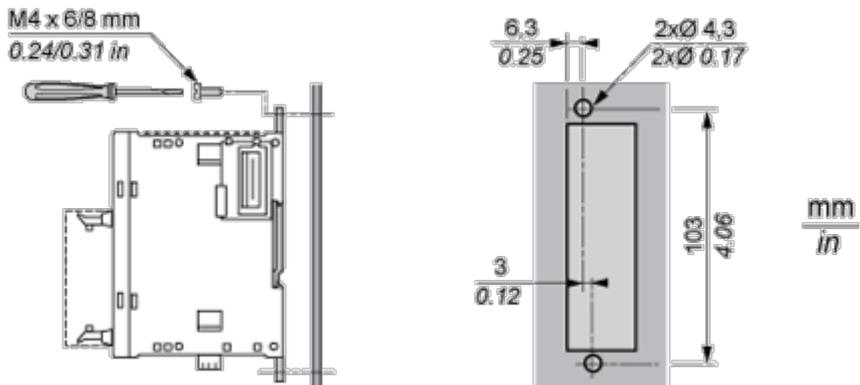
Connections and Schema

Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

mm²	0,14...1,5	0,25...0,5	0,25...1,5	0,14...0,5	0,14...0,75	0,25...0,34	0,5
AWG	26...16	24...20	24...16	26...20	26...18	24...22	20

Analog Output Module (1-channel, Voltage/Current)

Wiring Diagram

(1)   Voltage/current preactuator