

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	12 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

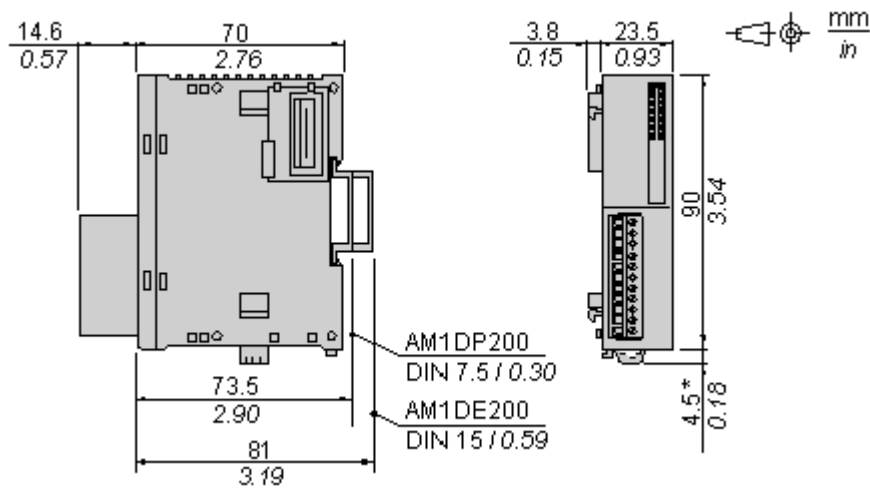
Well-being performance

✓ Toxic Heavy Metal Free	
✓ Mercury Free	
✓ Rohs Exemption Information	Yes
✓ Pvc Free	
Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Weee	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

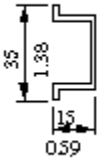


NOTE: * 8.5 mm (0.33 in) when the clip-on lock is pulled out.

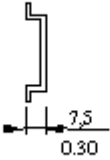
Mounting and Clearance

DIN Rail Mounting

AM1DE200
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200

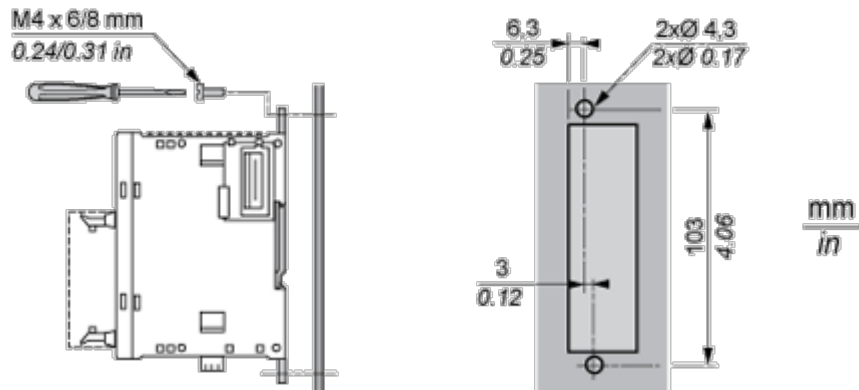


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

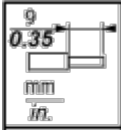


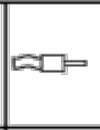
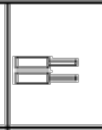
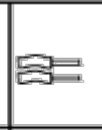
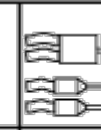
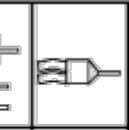
Mounting Hole Layout



Connections and Schema

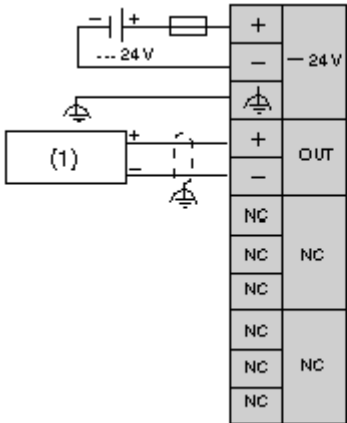
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

							
mm ²	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