

Product data sheet

Specifications



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

TM2AMO1HT

⚠ Discontinued - Service only

⚠ Discontinued on: Dec 1, 2020

⚠ To be end-of-service on: Jun 30, 2024

Product availability: Non-Stock - Not normally stocked in distribution facility

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 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Current Consumption	50 mA 5 V DC internal 40 mA 24 V DC external
Net Weight	0.19 lb(US) (0.085 kg)

Environment

Dielectric Strength	500 V between the I/O and the external supply circuit 500 V between the I/O and internal logic
Width	0.93 in (23.5 mm)
Depth	2.76 in (70 mm)
Height	3.54 in (90 mm)

Ordering and shipping details

Category	US1PC1222531
Discount Schedule	PC12
Gtin	3595863996128
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.87 in (7.3 cm)
Package 1 Width	4.06 in (10.3 cm)
Package 1 Length	4.92 in (12.5 cm)
Package 1 Weight	6.91 oz (196.0 g)
Unit Type Of Package 2	S01
Number Of Units In Package 2	6
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	2.84 lb(US) (1.287 kg)

Contractual warranty

Warranty	18 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 >](#)

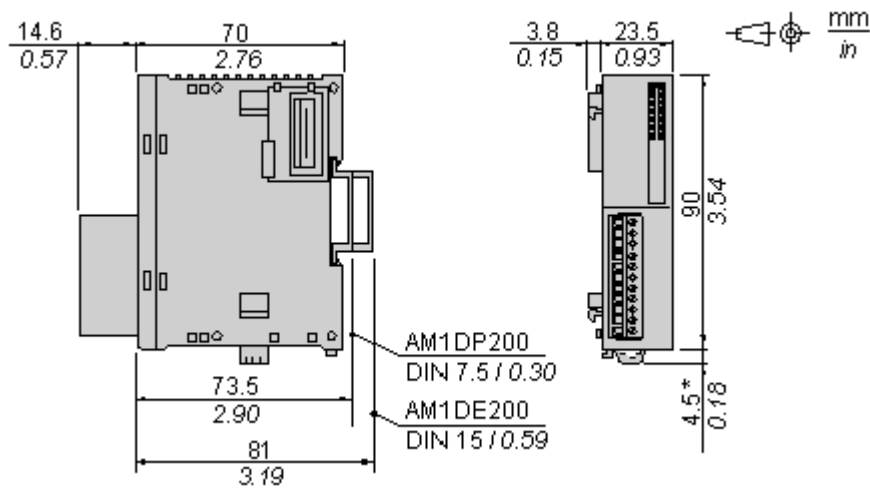
Well-being performance

 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.
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

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

Dimensions

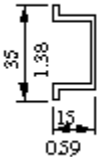


NOTE: * 8.5 mm (0.33 in) when the clip-on lock is pulled out.

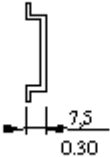
Mounting and Clearance

DIN Rail Mounting

AM1DE200
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200

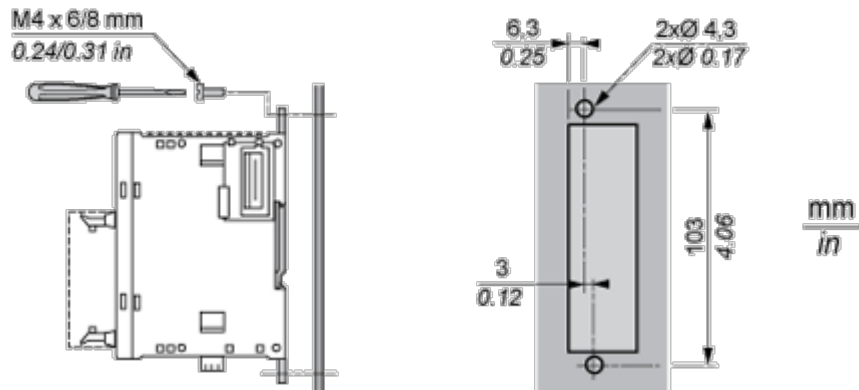


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout



Connections and Schema

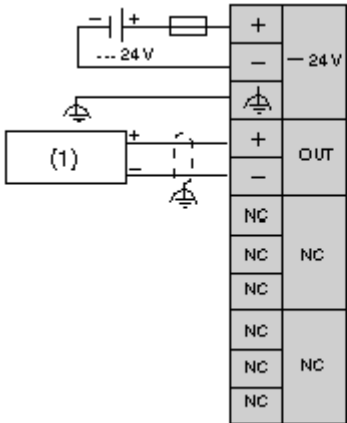
Wiring Requirements

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