

Product datasheet

Specifications



Analog input module, Modicon M238 logic controller, 8 inputs voltage/ current, non differential

TM2AMI8HT

⚠ Discontinued on: 26 Dec 2024

⚠ End-of-service on: 26 Dec 2024

⚠ Discontinued - Service only

Main

Range of product	Modicon M238 logic controller
Product or component type	I/O expansion module
Analogue input number	8
Analogue input type	current 4...20 mA non differential voltage 0...10 V non differential
Cross talk	<= 1 LSB

Complementary

Range compatibility	Twido Advantys OTB
Analogue input resolution	10 bits
LSB value	19.5 μ A current 9.7 mV voltage
Permissible continuous overload	40 mA, analogue input type: current 13 V, analogue input type: voltage
Input impedance	$\geq$ 10 kOhm voltage 470 Ohm current
Sampling duration	160 ms
Acquisition period	160 ms per channel + 1 controller cycle time
Measurement error	$\pm$ 0.2 % of full scale at 25 °C
Temperature coefficient	$\pm$ 0.01 %FS/°C
Repeat accuracy	$\pm$ 0.4 %FS
Non-linearity	$\pm$ 0.002 %FS
Total error	$\pm$ 1 %FS
Type of cable	Shielded cable
Insulation between channel and internal logic	Photocoupler
Supply	External supply
[Us] rated supply voltage	24 V DC
Supply voltage limits	20.4...28.8 V
Electrical connection	1 removable screw terminal block power supply 1 removable screw terminal block sensors
Current consumption	45 mA at 24 V DC external 60 mA at 5 V DC internal

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

Net weight	0.085 kg
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Environment

Dielectric strength	2500 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	7.5 cm
Package 1 Width	10.5 cm
Package 1 Length	12.5 cm
Package 1 Weight	144.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	18
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.107 kg

Contractual warranty

Warranty (in months)	18
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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

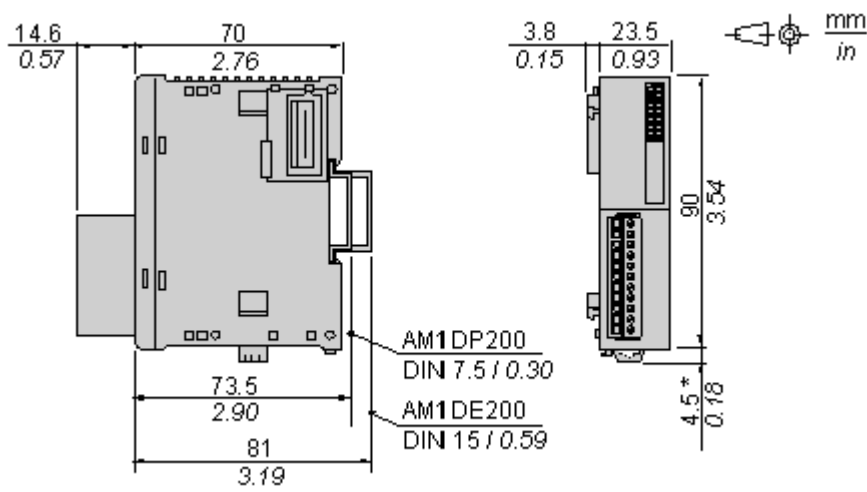
Use Again

Repack and remanufacture	
End of life manual availability	End of Life Information
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 Input Module (8-channel, Voltage/Current)

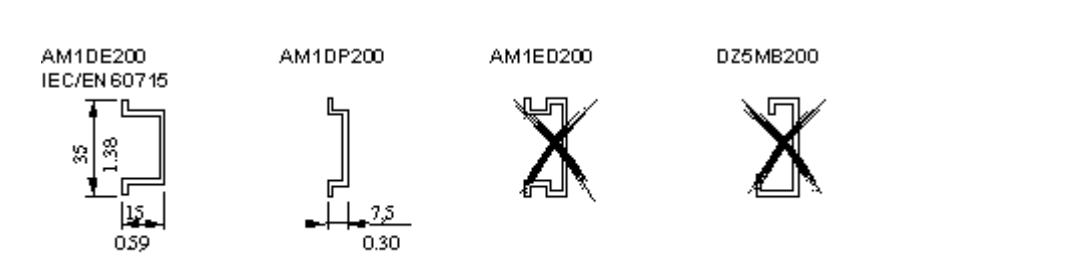
Dimensions



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

Mounting and Clearance

DIN Rail Mounting

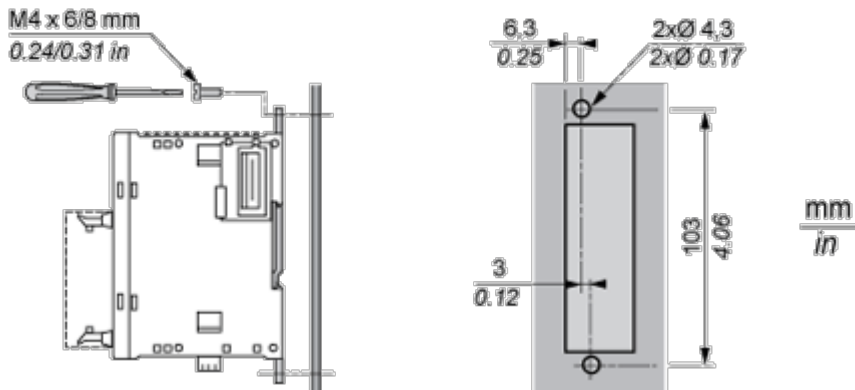


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

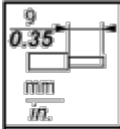
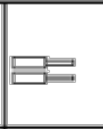
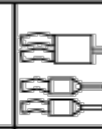
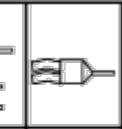
Mounting Hole Layout



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 Input Module (8-channel, Voltage/Current)

Wiring Diagram

