Product data sheet

Specifications

Green Premium™

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

TM2AMI8HT

⚠ Discontinued on: 28 June 2019

⚠ To be end-of-service on: 30 June 2024

⚠ Discontinued - Service only

Main

Range of product	Modicon M238 logic controller
Product or component type	Analog input 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	Advantys OTB Twido
Analogue input resolution	10 bits
LSB value	19.5 µA current 9.7 mV voltage
Permissible continuous overload	40 mA, analogue input type: current 13 V, analogue input type: voltage
Input impedance	>= 10 kOhm voltage 470 Ohm current
Sampling duration	160 ms
Acquisition period	160 ms per channel + 1 controller cycle time
Measurement error	+/- 0.2 % of full scale at 25 °C
Temperature coefficient	+/-0.01 %FS/°C
Repeat accuracy	+/- 0.4 %FS
Non-linearity	+/- 0.002 %FS
Total error	+/-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

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Current consumption	45 mA at 24 V DC external
	60 mA at 5 V DC internal

Net weight	0.085 kg

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

Offer Sustainability

| Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
	EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
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

Contractual warranty

Warranty	18 months

Analog Input Module (8-channel, Voltage/Current)

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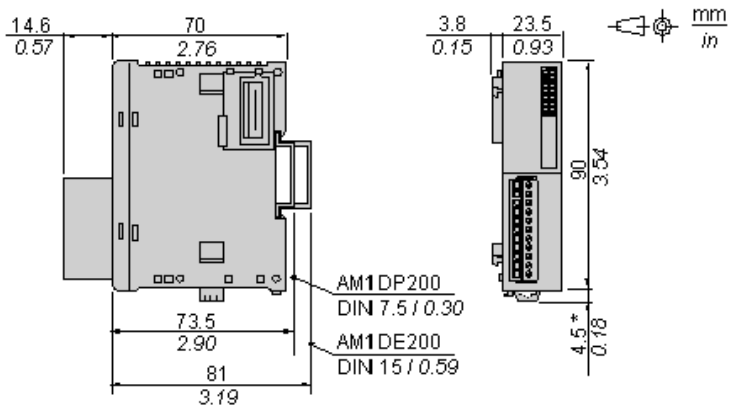
NOTE: * 8.5 mm *(0.33 in)* when the clip-on lock is pulled out.

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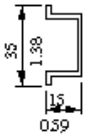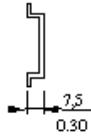
Rail depth	Catalogue part number
15 mm (*0.59 in.*)	AM1DE200
7,5 mm (*0.30 in.*)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface
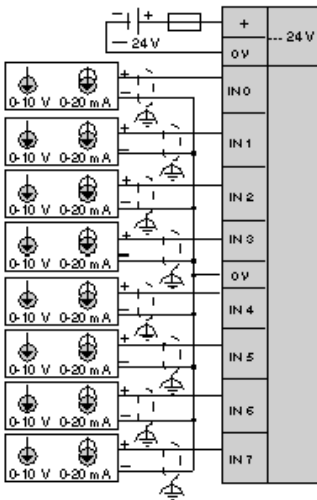
Mounting Hole Layout
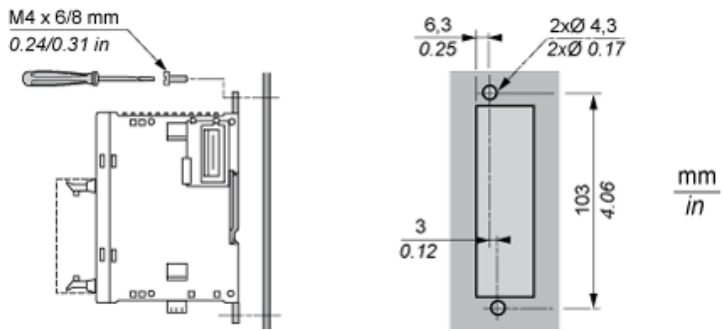
Wiring Requirements

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 Input Module (8-channel, Voltage/Current)

Wiring Diagram

Recommended replacement(s)

TM2AMI8HT is replaced by the following product range:

Modicon TM3

Expansion I/O modules for Modicon M221, M241, M251 and M262

Products: 65