

Product data sheet

Specifications



Analog input module, Modicon M238 logic controller, 8 inputs, 200 to 600 °C, 12 bits, 24VDC, screw terminal blocks

TM2ARI8LT

! Discontinued - Service only

! Discontinued on: Dec 1, 2020

! 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 input module
Analogue input number	8
Analogue input type	Pt 100 temperature probe - 200...600 °C non differential Pt 1000 temperature probe - 50...200 °C non differential

Complementary

Range Compatibility	Twido Advantys OTB
Analogue input resolution	12 bits
LSB value	0.006 °C Pt 1000 0.2 °C Pt 100
Input impedance	>= 10 kOhm
Sampling duration	160 ms
Acquisition period	320 ms per group of channel + 1 controller cycle time
Measurement error	+/- 0.3 % of full scale Pt 1000 25 °C +/- 0.5 % of full scale Pt 100 25 °C
Temperature coefficient	+/-0.01 %FS/°C
Repeat accuracy	+/- 0.1 °C
Total error	1 °C Pt 1000 4 °C Pt 100
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 power supply 1 removable screw terminal block sensors
Current consumption	<= 140 mA 24 V DC external 90 mA 5 V DC internal
Net Weight	0.42 lb(US) (0.19 kg)

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

Environment

Dielectric strength	500 V between the I/O and the external supply circuit 2500 V between the I/O and internal logic
Width	3.5 in (90 mm)
Depth	2.8 in (70 mm)
Height	3.5 in (90 mm)

Ordering and shipping details

Category	US1PC1222531
Discount Schedule	PC12
GTIN	3595863985207
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.0 in (7.5 cm)
Package 1 Width	4.1 in (10.5 cm)
Package 1 Length	4.9 in (12.5 cm)
Package weight(Lbs)	7.4 oz (209.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	18
Package 2 Height	11.8 in (30.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	8.294 lb(US) (3.762 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
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
PVC free	Yes

Use Longer

Lifetime extension	
Repair	No

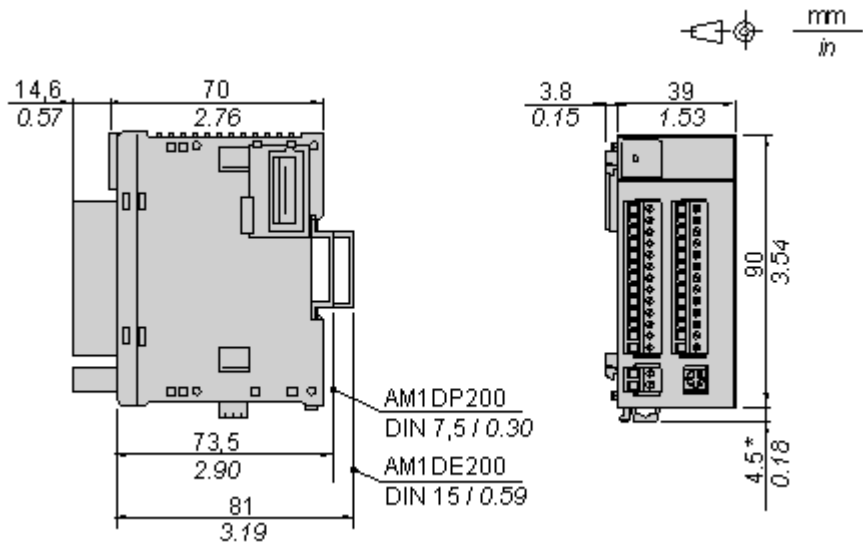
Use Again

Repack and remanufacture	
Circularity Profile	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, Temperature Probe)

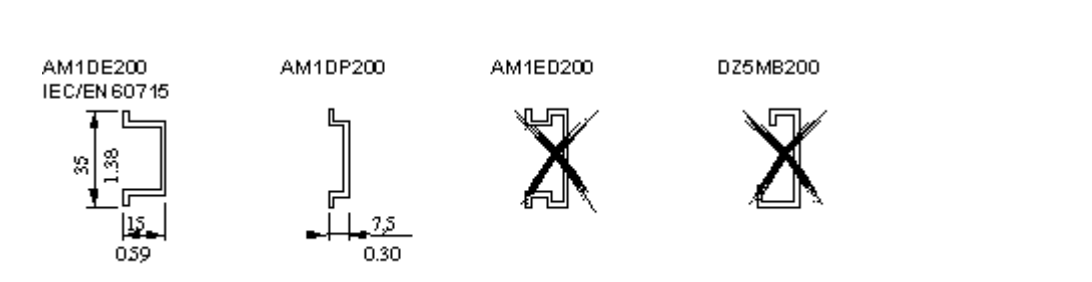
Dimensions



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

Mounting and Clearance

DIN Rail Mounting

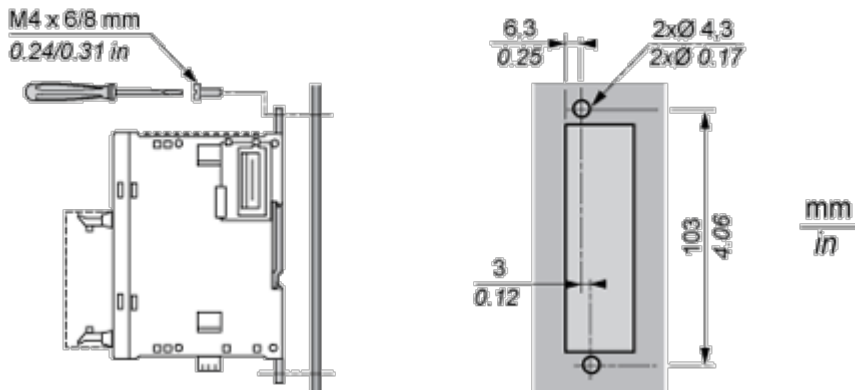


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

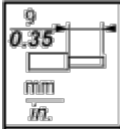
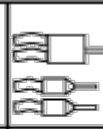
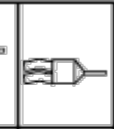
Mounting Hole Layout



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, Temperature Probe)

Wiring Diagram

