Product data sheet

Specification





Analog input module, Modicon M238 logic controller, 2 inputs thermocouple low level, differential

TM2AMI2LT

! Discontinued on: Dec 1, 2020

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

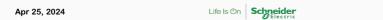
Main

Range Of Product	Modicon M238 logic controller	
Product Or Component Type	Analog input module	
Analogue Input Number	2	
Input Level	Low level	
Analogue Input Type	thermocouple - 200760 °C thermocouple J differential thermocouple - 2701370 °C thermocouple K differential thermocouple - 270400 °C thermocouple T differential	
Cross Talk	<= 2 LSB	

Complementary

Range Compatibility	Twido Advantys OTB	
Analogue Input Resolution	12 bits	
Lsb Value	0.1 °C thermocouple thermocouple T 0.3 °C thermocouple thermocouple J 0.325 °C thermocouple thermocouple K	
Permissible Continuous Overload	+/- 7.5 V thermocouple	
Input Impedance	>= 1 MOhm thermocouple	
Sampling Duration	200 ms	
Acquisition Period	200 ms per channel + 1 controller cycle time	
Measurement Error	0.2 % +/- 5 °C of full scale 25 °C	
Temperature Coefficient	+/-0.006 %FS/°C	
Repeat Accuracy	+/-0.5 %FS	
Non-Linearity	+/- 0.2 %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	20.428.8 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.



Current Consumption	30 mA 24 V DC external 60 mA 5 V DC internal
Net Weight	0.19 lb(US) (0.085 kg)

Environment

Dielectric Strength	500 V between the I/O and the external supply circuit 2500 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	22531-PLCS, TWIDO, TWD	
Discount Schedule	PC12	
Gtin	3595863996388	
Returnability	No	
Country Of Origin	FR	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.95 in (7.5 cm)
Package 1 Width	4.13 in (10.5 cm)
Package 1 Length	4.88 in (12.4 cm)
Package 1 Weight	5.43 oz (154.0 g)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



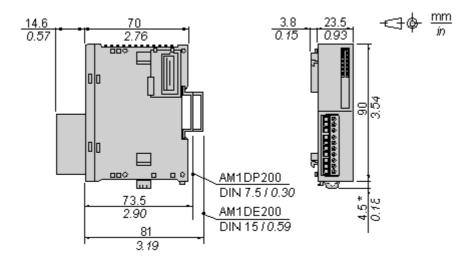
Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
Circularity Profile	End of Life Information	
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 Input Module (2-channel, Thermocouple)

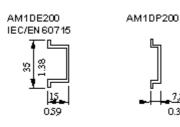
Dimensions



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

Mounting and Clearance

DIN Rail Mounting





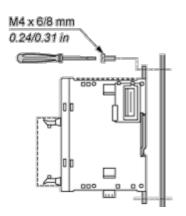


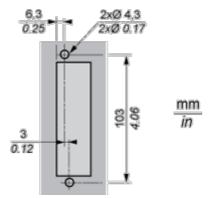
Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout





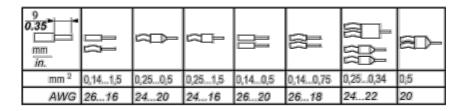
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Connections and Schema

Wiring Requirements

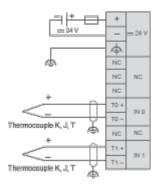
Cable Types and Wire Sizes for Removable Screw Terminal Block



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Analog Input Module (2-channel, Thermocouple)

Wiring Diagram



(1) Thermocouple K, J, T