

Main

Commercial Status	Commercialised
Range of product	Modicon M238 logic controller
Product or component type	Analog input module
Analogue input number	8
Analogue input type	Temperature probe - 50...200 °C Pt 1000 non differential Temperature probe - 200...600 °C Pt 100 non differential

Complementary

Range compatibility	Advantys OTB Twido
Analogue input resolution	12 bits
LSB value	0.2 °C Pt 100 0.006 °C Pt 1000
Input impedance	>= 10 kOhm
Sampling duration	<= 160 ms
Acquisition period	320 ms per group of channel + 1 controller cycle time
Measurement error	+/- 0.5 % of full scale Pt 100 25 °C +/- 0.3 % of full scale Pt 1000 25 °C
Temperature coefficient	+/-0.01 %FS/°C
Repeat accuracy	+/- 0.1 °C
Total error	4 °C Pt 100 1 °C Pt 1000
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 sensors 1 removable screw terminal block power supply
Current consumption	90 mA 5 V DC internal <= 140 mA 24 V DC external
Product weight	0.19 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	90 mm
Depth	70 mm
Height	90 mm

RoHS compliance

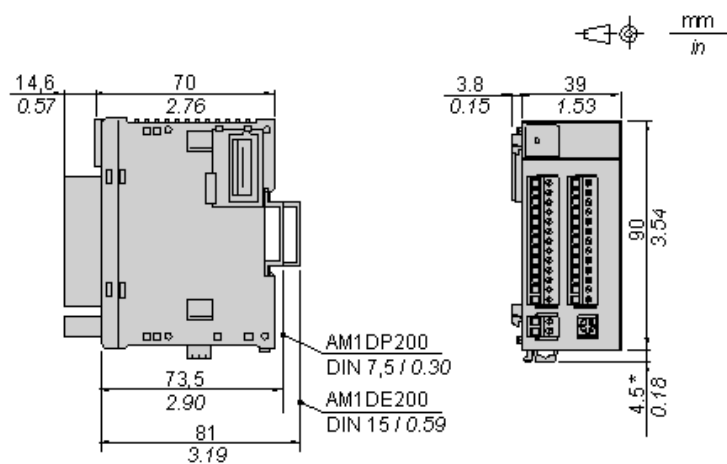
RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0903

Contractual warranty

Period	18 months
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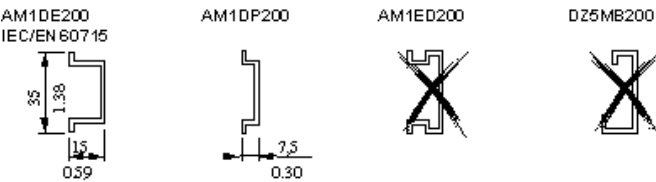
Analog Input Module (8-channel, Temperature Probe)

Dimensions



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

DIN Rail Mounting

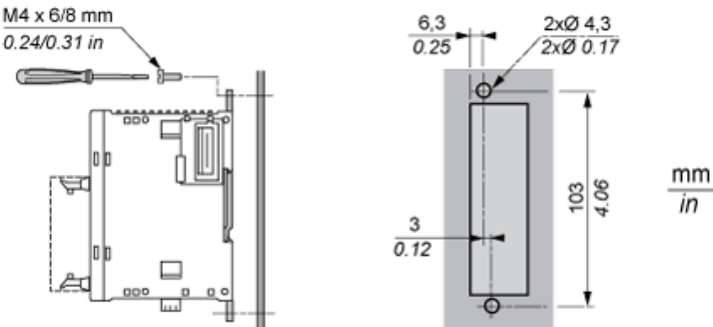


Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

Mounting Hole Layout



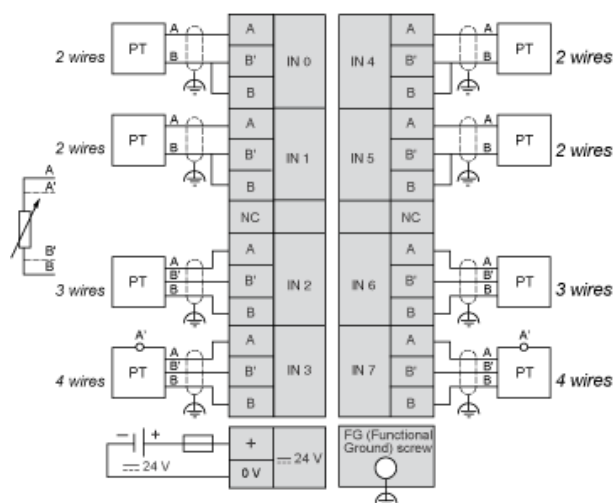
Wiring Requirements

Cable Types and Wire Sizes for Removable Screw Terminal Block

							
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

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Wiring Diagram



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