

## TM2AMI4LT

analog input module M238- 4 inputs  
voltage/current/temperature- non differential



### Main

Range of product	Modicon M238 logic controller
Product or component type	Analog input module
Analogue input number	4
Analogue input type	Current 4...20 mA non differential Voltage 0...10 V non differential Temperature probe - 200...600 °C Pt 100/Pt 1000 non differential Temperature probe - 50...150 °C Ni 100/Ni 1000 non differential
Cross talk	<= 1 LSB

### Complementary

Range compatibility	Advantys OTB Twido
Analogue input resolution	12 bits
LSB value	2.5 mV voltage voltage 4.8 µA current current 0.2 °C temperature probe Pt 100/Pt 1000 0.05 °C temperature probe Ni 100/Ni 1000
Permissible continuous overload	13 V voltage 40 mA current
Input impedance	>= 10 kOhm temperature probe 10 kOhm voltage 470 Ohm current
Sampling duration	<= 160 ms
Acquisition period	160 ms per channel + 1 controller cycle time voltage/current 320 ms per channel + 1 controller cycle time temperature probe
Measurement error	+/- 0.4 % of full scale Pt 100/Pt 1000, Ni 100/ Ni 1000 25 °C +/- 0.2 % of full scale 0...10 V 0...10 V 25 °C +/- 0.2 % of full scale 4...20 mA 4...20 mA 25 °C
Temperature coefficient	+/- 0.004 %FS/°C temperature probe +/- 0.009 %FS/°C current +/- 0.009 %FS/°C voltage
Repeat accuracy	+/-0.1 %FS
Non-linearity	+/- 0.02 %FS
Total error	+/-0.5 %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
Current consumption	50 mA 5 V DC internal 60 mA 24 V DC external
Product weight	0.085 kg

### Environment

Dielectric strength	2500 V between the I/O and internal logic
Width	23.5 mm
Depth	70 mm

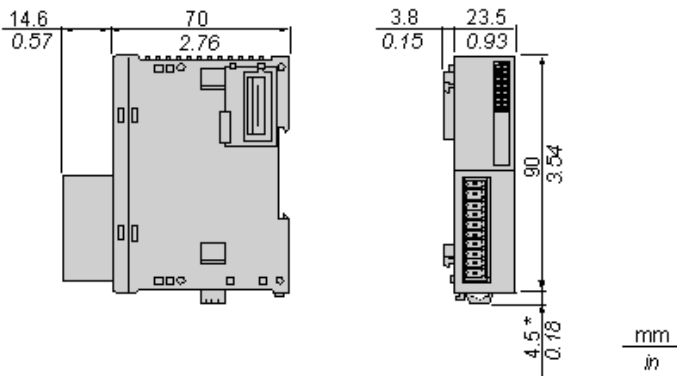
The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0839 - Schneider Electric declaration of conformity
Product environmental profile	Available
Product end of life instructions	Available

## Analog Input Module (4-channel, Voltage/Current/Temperature)

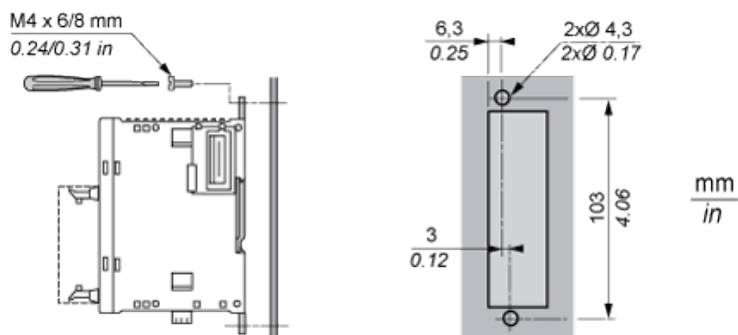
### Dimensions



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

## Module Mounting on a Panel Surface

### Mounting Hole Layout



## Wiring Requirements

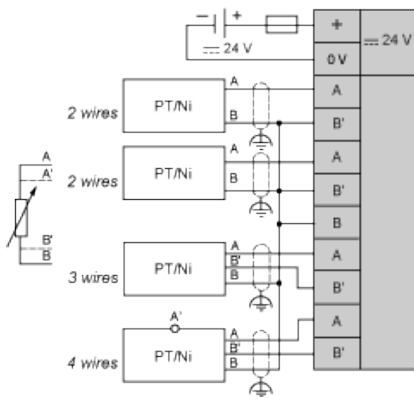
### Cable Types and Wire Sizes for Removable Screw Terminal Block

9 0.35 mm in.							
mm <sup>2</sup>	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 (4-channel, Voltage/Current/Temperature)

### Wiring Diagrams

Inputs configured for measuring temperature



Inputs configured for measuring voltage/current

