

# Product datasheet

Specifications



## Analog input module, Modicon M238 logic controller, 2 inputs voltage/ current high level, non differential

TM2AMI2HT

### Main

Range of product	Modicon M238 logic controller
Product or component type	I/O expansion module
Analogue input number	2
Input level	High level
Analogue input type	current 4...20 mA non differential voltage 0...10 V non differential
Cross talk	$\leq 2$ LSB

### Complementary

Range compatibility	Twido Advantys OTB
Analogue input resolution	12 bits
LSB value	2.5 mV voltage voltage 4.8 $\mu$ A current current
Permissible continuous overload	40 mA, analogue input type: current 13 V, analogue input type: voltage
Input impedance	$\geq 1$ MOhm voltage 10 Ohm current
Sampling duration	10 ms
Acquisition period	10 ms per channel + 1 controller cycle time
Measurement error	$\pm 0.2$ % of full scale at 25 °C
Temperature coefficient	$\pm 0.006$ %FS/°C
Repeat accuracy	$\pm 0.5$ %FS
Non-linearity	$\pm 0.2$ %FS
Total error	$\pm 1$ %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
Current consumption	50 mA at 5 V DC internal 40 mA at 24 V DC external
Net weight	0.085 kg

## Environment

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<b>Dielectric strength</b>	500 V between the I/O and the external supply circuit 500 V between the I/O and internal logic
<b>Width</b>	23.5 mm
<b>Depth</b>	70 mm
<b>Height</b>	90 mm

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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.5 cm
<b>Package 1 Width</b>	10.5 cm
<b>Package 1 Length</b>	13.0 cm
<b>Package 1 Weight</b>	197.0 g

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## Contractual warranty

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<b>Warranty (in months)</b>	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](#)

PVC free

Yes

### Use Longer



#### Lifetime extension

Repair

No

### Use Again




#### Repack and remanufacture

End of life manual availability

[End of Life Information](#)

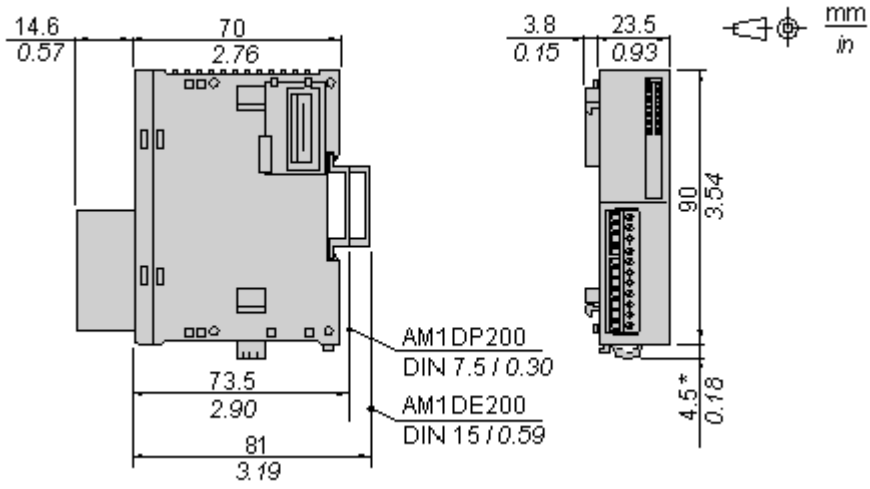
WEEE Label

 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 (2-channel, Voltage/Current)

Dimensions



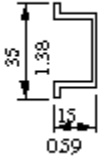
NOTE: \* 8.5 mm (0.33 in) when the clip-on lock is pulled out.

Mounting and Clearance

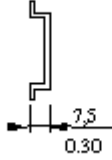
DIN Rail Mounting

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AM1DE200  
IEC/EN 60715



AM1DP200



AM1ED200



DZ5MB200



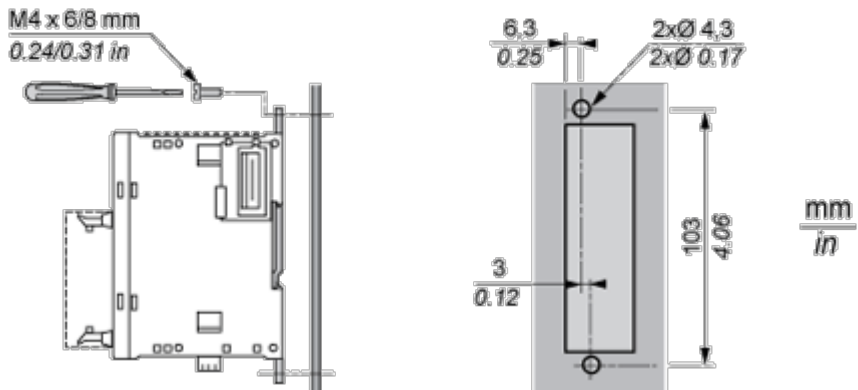
Rail depth	Catalogue part number
15 mm (0.59 in.)	AM1DE200
7,5 mm (0.30 in.)	AM1DP200

NOTE: Do not use AM1ED200 and DZ5MB200

Module Mounting on a Panel Surface

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Mounting Hole Layout



Connections and Schema

Wiring Requirements

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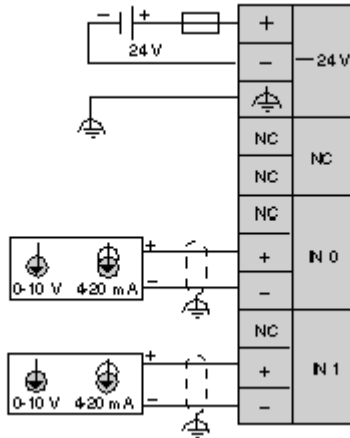
Cable Types and Wire Sizes for Removable Screw Terminal Block

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 (2-channel, Voltage/Current)

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Wiring Diagram



The (-) poles of inputs IN0 and IN1 are connected internally.