

Product datasheet

Specifications



distributed analog input Modicon Momentum - 16 Input

170AAI14000

Price: 27,534.95 ZAR

Main

Range Of Product	Modicon Momentum automation platform
Product Or Component Type	Analogue input base
Analogue Input Number	16
Analogue Input Type	Single ended
Analogue Input Range	4...20 mA 12 bits < 0.25 Ohm +/- 10 V 12 bits + sign > 2200 kOhm +/- 5 V 12 bits + sign > 2200 kOhm
Type Of Filter	Low pass input filter 10 kHz

Complementary

Data Format	Full 16 bits signed
Absolute Accuracy Error	+/- 0.15 % of full scale 25 °C +/- 10 V +/- 0.15 % of full scale 25 °C +/- 5 V +/- 0.25 % full scale 25 °C 4...20 mA +/- 0.25 % full scale 60 °C +/- 10 V +/- 0.25 % full scale 60 °C +/- 5 V +/- 0.45 % full scale 60 °C 4...20 mA
Temperature Drift	30 %oFS/°C +/- 10 V 60 °C 30 %oFS/°C +/- 5 V 60 °C 60 %oFS/°C 4...20 mA 60 °C
Full Scale	10 V +/- 10 V 16 mA 4...20 mA 5 V +/- 5 V
Update Time	25 ms
Isolation Between Channels And Ground	1780 V AC for 1 minute
Isolation Between Supply And Ground	500 V for 1 minute
Permissible Common Mode Voltage	100 V 47...63 Hz DC between channels to ground 250 V 47...63 Hz AC between channels to ground
External Power Requirement	+/- 30 V DC
Maximum Power Dissipation In W	5.55 W
Reverse Polarity Protection	Internal
Protection Type	Internal 2 A slow-blow
Associated Fuse Rating	500 mA, fast blow
Marking	CE
Local Signalling	16 LEDs for channel status
Electrical Connection	2 connectors for removable terminal blocks
Current Consumption	305 mA at 24 V DC

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: 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

Depth	47.5 mm
Height	125 mm
Width	141.5 mm
Net Weight	0.215 kg

Environment

Product Certifications	UL FM Class 1 Division 2 CSA
Protective Treatment	TC
Resistance To Electrostatic Discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance To Electromagnetic Fields	10 V/m 80...1000 MHz conforming to IEC 801-3
Ambient Air Temperature For Operation	0...60 °C
Ambient Air Temperature For Storage	-40...85 °C
Relative Humidity	95 % without condensation
Operating Altitude	<= 5000 m

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	18.0 cm
Package 1 Length	26.0 cm
Package 1 Weight	385.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	10
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.85 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	80
Package 3 Height	75.0 cm
Package 3 Width	60.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	46 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓

Mercury Free

✓

Rohs Exemption Information

Yes

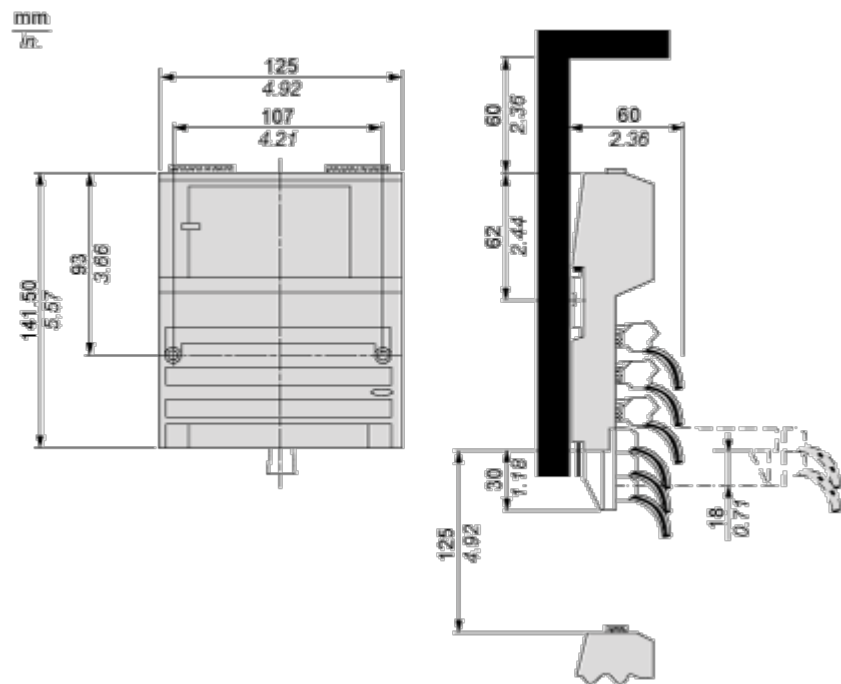
Certifications & Standards

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

Dimensions Drawings

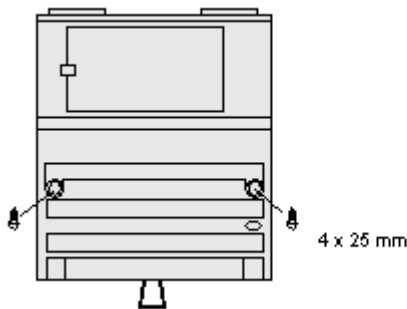
Standard Adapter on a Typical Base

Dimensions



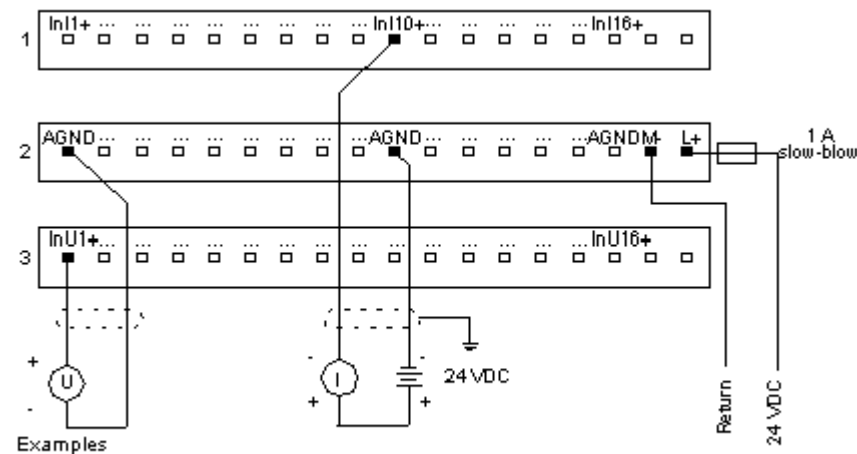
Mounting and Clearance

Mounting on a Wall



Connections and Schema

External Wiring Diagram



- Examples
- * Channel 1, wired for voltage input
 - * Channel 10, wired for current input

Internal Pin Connections

