Product data sheet

Specifications





distributed analog input Modicon Momentum - 16 Input

170AAI14000

Product availability: Stock - Normally stocked in distribution facility

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	420 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 77 °F (25 °C) +/- 10 V +/- 0.15 % of full scale 77 °F (25 °C) +/- 5 V +/- 0.25 % full scale 77 °F (25 °C) 420 mA +/- 0.25 % full scale 140 °F (60 °C) +/- 10 V +/- 0.25 % full scale 140 °F (60 °C) +/- 5 V +/- 0.45 % full scale 140 °F (60 °C) 420 mA
Temperature Drift	30 %oFS/°C +/- 10 V 140 °F (60 °C) 30 %oFS/°C +/- 5 V 140 °F (60 °C) 60 %oFS/°C 420 mA 140 °F (60 °C)
Full Scale	10 V +/- 10 V 16 mA 420 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 4763 Hz DC between channels to ground 250 V 4763 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	for channel status 16 LEDs
Electrical Connection	2 connectors for removable terminal blocks
Current Consumption	305 mA 24 V DC

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Depth	1.87 in (47.5 mm)
Height	4.92 in (125 mm)
Width	5.57 in (141.5 mm)
Net Weight	0.47 lb(US) (0.215 kg)

Environment

Product Certifications	UL FM Class 1 Division 2 CSA
Protective Treatment	TC
Resistance To Electrostatic Discharge	4 kV contact IEC 801-2 8 kV on air IEC 801-2
Resistance To Electromagnetic Fields	9.14 V/m (10 V/m) 801000 MHz IEC 801-3
Ambient Air Temperature For Operation	32140 °F (060 °C)
Ambient Air Temperature For Storage	-40185 °F (-4085 °C)
Relative Humidity	95 % without condensation
Operating Altitude	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	US1PC3118206
Discount Schedule	PC31
Gtin	3595861147690
Returnability	Yes
Country Of Origin	ID

Packing Units

PCE
1
2.17 in (5.5 cm)
7.09 in (18.0 cm)
10.24 in (26.0 cm)
13.58 oz (385.0 g)
S03
10
11.81 in (30 cm)
11.81 in (30 cm)
15.75 in (40 cm)
8.49 lb(US) (3.85 kg)
P06
80
29.53 in (75.0 cm)
23.62 in (60.0 cm)

Package 3 Length

31.50 in (80.0 cm)

Package 3 Weight

101.41 lb(US) (46 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information
Yes

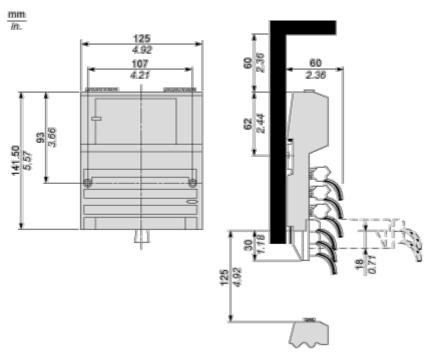
Certifications & Standards

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.
Weee Circularity Profile	

Dimensions Drawings

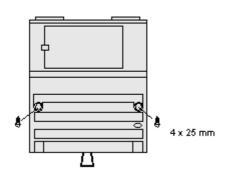
Standard Adapter on a Typical Base

Dimensions



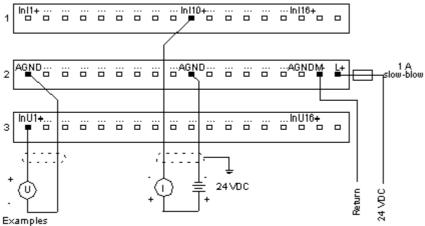
Mounting and Clearance

Mounting on a Wall



Connections and Schema

External Wiring Diagram



* Channel 1, wired for voltage input

* Channel 10, wired for current input

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Internal Pin Connections

