

# distributed analog input Modicon Momentum - 8 Input

170AAI03000

## Main

Range Of Product	Modicon Momentum automation platform
Product Or Component Type	Analogue input base
Analogue Input Number	8
Analogue Input Type	Differential
Analogue Input Range	+/- 20 mA 14 bits + sign 250 kOhm 420 mA 15 bits + sign 250 kOhm +/- 10 V 14 bits + sign > 0.1 kOhm +/- 5 V 14 bits + sign > 0.1 kOhm 15 V 15 bits + sign > 0.1 kOhm

## Complementary

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Data Format	Full 16 bits signed
Absolute Accuracy Error	+/- 0.13 % full scale 25 °C 15 V
	+/- 0.19 % full scale 60 °C 15 V
	+/- 0.21 % full scale 25 °C +/- 5 V
	+/- 0.26 % full scale 60 °C +/- 5 V
	+/- 0.27 % full scale 25 °C +/- 10 V
	+/- 0.27 % full scale 25 °C 420 mA
	+/- 0.32 % full scale 25 °C +/- 20 mA
	+/- 0.32 % full scale 60 °C +/- 10 V
	+/- 0.38 % full scale 60 °C 420 mA
	+/- 0.41 % full scale 60 °C +/- 20 mA
Conversion Time	12 ms 8
Isolation Between Channels	+/- 200 V DC for 1 minute
Isolation Between Channels And Ground	500 V AC for 1 minute
Isolation Between Channels And Bus	500 V AC for 1 minute
Permissible Common Mode	100 V 4763 Hz DC between channels to ground
Voltage	250 V 4763 Hz AC between channels to ground
Common Mode Rejection	> 80 dB between channels to ground
External Power Requirement	< 382 mA DC
	20.428.8 V DC
	24 V DC
Reverse Polarity Protection	Internal
Marking	CE
Local Signalling	1 LED (green) for ready
	8 LEDs for channel status
Electrical Connection	2 connectors for removable terminal blocks
Depth	47.5 mm
Height	125 mm

Width	141.5 mm
Net Weight	0.215 kg

## **Environment**

Standards	EN 50081-2 IEC 1131
Product Certifications	FM Class 1 Division 2 CSA UL
Protective Treatment	тс
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 801000 MHz conforming to IEC 801-3
Ambient Air Temperature For Operation	060 °C
Ambient Air Temperature For Storage	-4085 °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	398.0 g

## **Contractual warranty**

Warranty 18 months

## Sustainability

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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 >

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Transparency RoHS/REACh

## Well-being performance



Mercury Free



Rohs Exemption Information

Yes

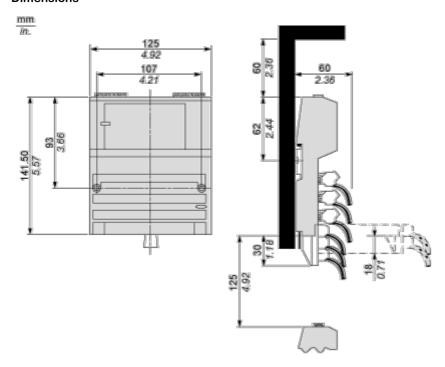
#### **Certifications & Standards**

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
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

## **Dimensions Drawings**

## Standard Adapter on a Typical Base

#### **Dimensions**

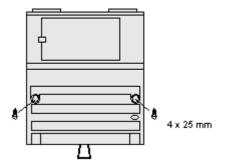


## **Product data sheet**

## 170AAI03000

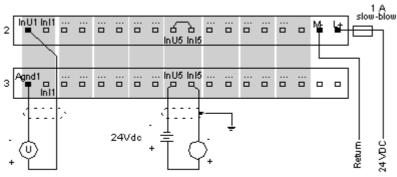
Mounting and Clearance

## Mounting on a Wall



#### Connections and Schema

#### **External Wiring Diagram**



#### Examples

- \* Channel1, wired for voltage input
- \* Channel 5, wired for current input

## Product data sheet

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#### **Internal Pin Connections**

