

# distributed analog input Modicon Momentum - 4 Input

170AAI52040

## Main

Range Of Product	Modicon Momentum automation platform	
Product Or Component Type	Analogue input base	
Analogue Input Number	4	
Analogue Input Type	Differential	
Analogue Input Range	+/- 100 mV 15 bits + sign > 10000 kOhm +/- 25 mV 15 bits + sign > 10000 kOhm	
Thermocouple Type	Thermocouple E Thermocouple S Thermocouple K Thermocouple N Thermocouple B Thermocouple R Thermocouple J Thermocouple T	

#### Complementary

oompicinentary	
Data Format	Full 16 bits signed
Absolute Accuracy Error	+/- 21 µV 25 °C +/- 25 mV
	+/- 27 μV 25 °C +/- 100 mV
	+/- 46 μV 60 °C +/- 25 mV
	+/- 94 μV 60 °C +/- 100 mV
Temperature Probe Type	Ni 100 0.125 mA +/- 25 mV
	Ni 1000 0.125 mA +/- 100 mV
	Pt 100 0.125 mA +/- 25 mV
	Pt 1000 0.125 mA +/- 100 mV
Update Time	500 ms
Isolation Between Channels	400 V DC
Isolation Between Channels And Ground	500 V AC for 1 minute
Isolation Between Supply And Ground	500 V for 1 minute
Permissible Common Mode	100 V DC between channels to ground
Voltage	115 V AC single or three phases between channels
	200 V DC between channels
	250 V AC between channels to ground
	250 V AC single phase between channels
Common Mode Rejection	120 dB DC between channels
	130 dB 50 Hz AC between channels
	135 dB DC between channels to ground
	140 dB 60 Hz AC between channels
	145 dB 50 Hz AC between channels to ground
	155 dB 60 Hz AC between channels to ground
Serial Mode Rejection	35 dB 50 Hz AC
	45 dB 60 Hz AC
External Power Requirement	+/- 30 V DC

Maximum Power Dissipation In W	5.5 W
Reverse Polarity Protection	Internal
Protection Type	Internal 2 A slow-blow
Associated Fuse Rating	500 mA, fast blow
Marking	CE
Local Signalling	4 LEDs for channel status
Electrical Connection	2 connectors for removable terminal blocks
Current Consumption	305 mA at 24 V DC
Depth	47.5 mm
Height	125 mm
Width	141.5 mm
Net Weight	0.215 kg

## **Environment**

Product Certifications	FM Class 1 Division 2 CSA UL
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 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**

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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	380.0 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	3.8 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	80
Package 3 Height	75.0 cm

Package 3 Width	40.0 cm	
Package 3 Length	80.0 cm	
Package 3 Weight	55.4 kg	

## **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 >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

### Well-being performance



Mercury Free



Rohs Exemption Information

Yes

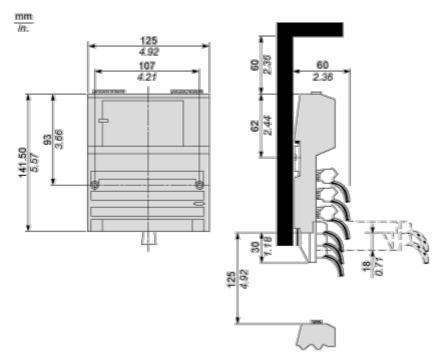
#### **Certifications & Standards**

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
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**

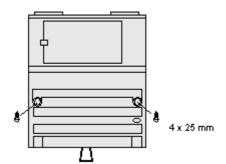


## **Product data sheet**

## 170AAI52040

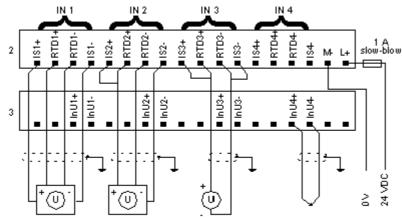
Mounting and Clearance

#### Mounting on a Wall



#### Connections and Schema

#### **External Wiring Diagram**



#### Examples

- \* Channel 1,RTD input, 4 wire configuration
  \* Channel 2,RTD input, 3 wire configuration
  \* Channel 3,RTD input, 2 wire configuration
  \* Channel 4,thermocouple input

#### **Internal Pin Connections**

