# **Product data sheet**

Specifications





## analog input module Modicon Quantum - 8 I thermocouple

140ATI03000C

! Discontinued on: Mar 15, 2022

Product availability: Non-Stock - Not normally stocked in distribution facility

### ① Discontinued

#### Main

Range Of Product	Modicon Quantum automation platform
Product Or Component Type	Analogue input module
Type Of Filter	Notch filter - 3 dB at 50/60 Hz Single pole low pass - 3 dB at 20 Hz

### Complementary

Analogue Input Number	8
Addressing Requirement	10 input words
Analogue Input Type	Thermocouple - 210760 °C thermocouple J
	Thermocouple - 2701000 °C thermocouple E
	Thermocouple - 2701370 °C thermocouple K
	Thermocouple - 270400 °C thermocouple T
	Thermocouple - 501665 °C thermocouple R
	Thermocouple - 501665 °C thermocouple S
Analogue Input Resolution	16 bits
Absolute Accuracy Error	+/- 2 °C plus + 0.1 % of reading thermocouple E
	+/- 2 °C plus + 0.1 % of reading thermocouple J
	+/- 2 °C plus + 0.1 % of reading thermocouple K
	+/- 2 °C plus + 0.1 % of reading thermocouple T
	+/- 4 °C plus + 0.1 % of reading thermocouple R
	+/- 4 °C plus + 0.1 % of reading thermocouple S
Linearity Error	1 °C, 0.1 °C, 1 F, 0.1 F - 210760 °C
	1 °C, 0.1 °C, 1 F, 0.1 F - 2701000 °C
	1 °C, 0.1 °C, 1 F, 0.1 F - 2701370 °C
	1 °C, 0.1 °C, 1 F, 0.1 F - 270400 °C
	1 °C, 0.1 °C, 1 F, 0.1 F - 501665 °C
Accuracy Drift According To Temperature	0.15 μV/°C + 0.0015 % of reading/°C max low level voltage
Common Mode Rejection	> - 120 dB 50/60 Hz
Isolation Between Channels And	1780 V AC 60 s
Bus	2500 V DC 60 s
Isolation Between Channels	300 V DC
	220 V AC
Update Time	1000 ms
Fault Type	Broken wire
	Overtacking scale
Marking	CE
Cold Junction Compensation	Internal 32140 °F (060 °C)

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

Local Signalling	for bus communication is present (Active) 1 LED (green) for external fault 1 LED (red) for channel is turned on 8 LEDs (green) for channel fault 8 LEDs (red)
Bus Current Requirement	280 mA
Power Dissipation In W	1.5 W
Module Format	Standard
Net Weight	0.66 lb(US) (0.3 kg)

### **Environment**

<b>Protective Treatment</b>	Conformal coating Humiseal 1A33
Standards	UL 508 CSA C22.2 No 142
Product Certifications	cUL FM Class 1 Division 2
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	US1PC2118155
Discount Schedule	PC21
Gtin	3595861136144
Returnability	No
Country Of Origin	US

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.77 in (4.5 cm)
Package 1 Width	6.50 in (16.5 cm)
Package 1 Length	12.60 in (32.0 cm)
Package 1 Weight	16.19 oz (459.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	2
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	2.96 lb(US) (1.344 kg)

## **Contractual warranty**

Warranty

Apr 27, 2024

18 months



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RoHS/REACh

#### Well-being performance

<b>②</b>	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes

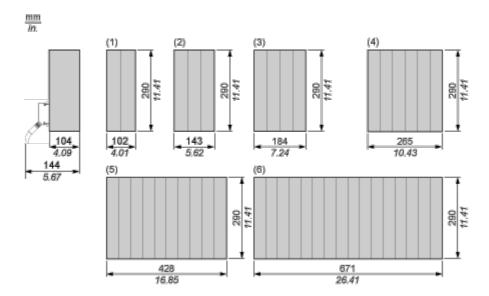
#### **Certifications & Standards**

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
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**

#### **Racks for Modules Mounting**

#### **Dimensions of Modules and Racks**



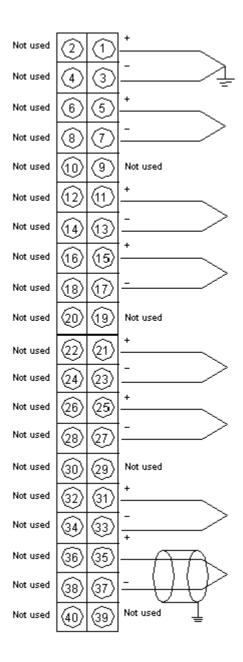
- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

#### 140ATI03000C

Connections and Schema

#### **Thermocouple Input 8-Channel Module**

#### Wiring Diagram



#### **Using Cold Junction Compensation (CJC)**

For temperature measurements, the module provides an internal CJC. However, a remote CJC can be used with the following TC types: J,K and T. The TC must be connected to Channel.

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