

Product availability : Stock - Normally stocked in distribution facility



Commercial status

To be discontinued on: 31 December 2022

To be end-of-service on: 31 December 2030

⚠ To be 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 - 210...760 °C thermocouple J Thermocouple - 270...1000 °C thermocouple E Thermocouple - 270...1370 °C thermocouple K Thermocouple - 270...400 °C thermocouple T Thermocouple - 50...1665 °C thermocouple R Thermocouple - 50...1665 °C thermocouple S
Analogue input resolution	16 bits
Input impedance	> 1 MOhm
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 - 210...760 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 270...1000 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 270...1370 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 270...400 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 50...1665 °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 bus	1780 V AC 60 s

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

	2500 V DC 60 s
Isolation between channels	300 V DC 220 V AC
Update time	1000 ms
Fault type	Broken wire Overtaking scale
Marking	CE
Cold junction compensation	Internal 32...140 °F (0...60 °C)
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

Standards	CSA C22.2 No 142 UL 508
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) 80...1000 MHz IEC 801-3
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Relative humidity	95 % without condensation
Operating altitude	<= 16404.2 ft (5000 m)

Ordering and shipping details

Category	18155 - QUANTUM I/O & POWER SUPPLIES
Discount Schedule	PC21
GTIN	03595861126602
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.97 in (5 cm)
Package 1 width	6.50 in (16.5 cm)
Package 1 Length	12.40 in (31.5 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Weight	6.88 lb(US) (3.122 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
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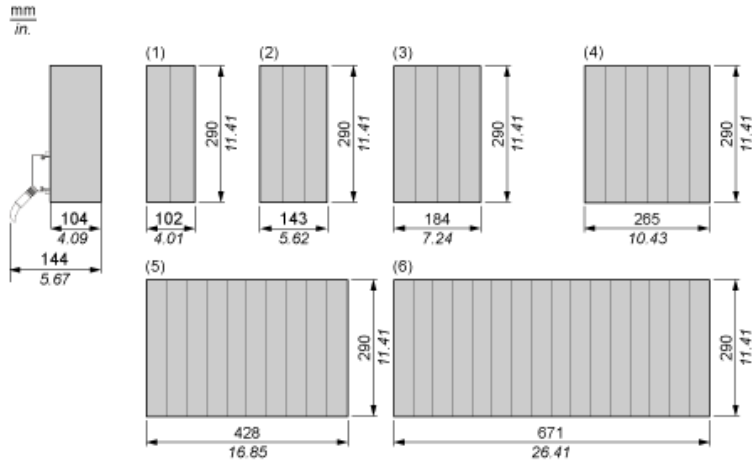
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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Racks for Modules Mounting

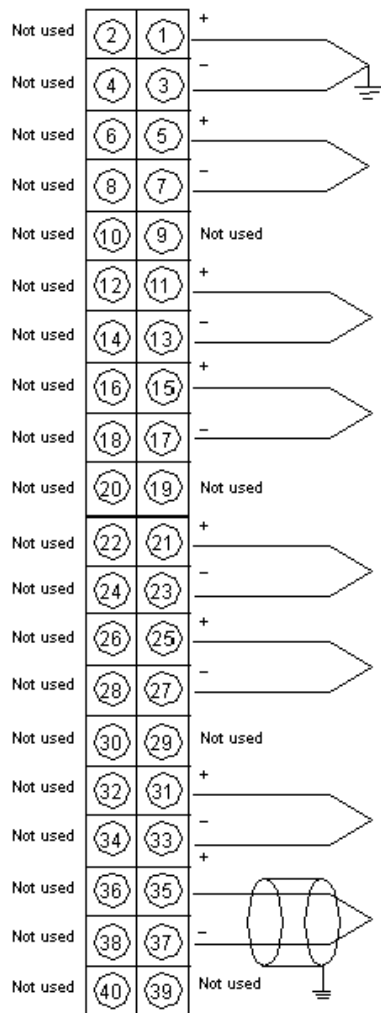
Dimensions of Modules and Racks



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

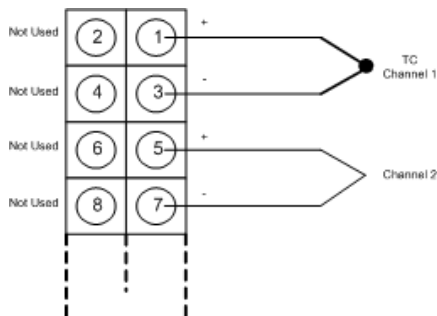
Thermocouple Input 8-Channel Module

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.



140ATI03000 is replaced by:



Standard environment BMXART0814

analog input module X80 - 8 inputs - temperature

Qty 1

Reason for Substitution: End of life | Substitution date: 30 September 2019 | Linking to group 1
