



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 for thermocouple J Thermocouple: - 270...1000 °C for thermocouple E Thermocouple: - 270...1370 °C for thermocouple K Thermocouple: - 270...400 °C for thermocouple T Thermocouple: - 50...1665 °C for thermocouple R Thermocouple: - 50...1665 °C for 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 μ V/°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	Bus communication is present (Active) 1 LED green) External fault 1 LED red) Channel is turned on 8 LEDs green) 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

Protective treatment	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/yd (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	<= 5000 m

Packing Units

Package 1 Weight	1.01 lb(US) (0.459 kg)
Package 1 Height	1.77 in (45.000 mm)
Package 1 width	6.50 in (165.000 mm)
Package 1 Length	12.60 in (320.000 mm)

Offer Sustainability

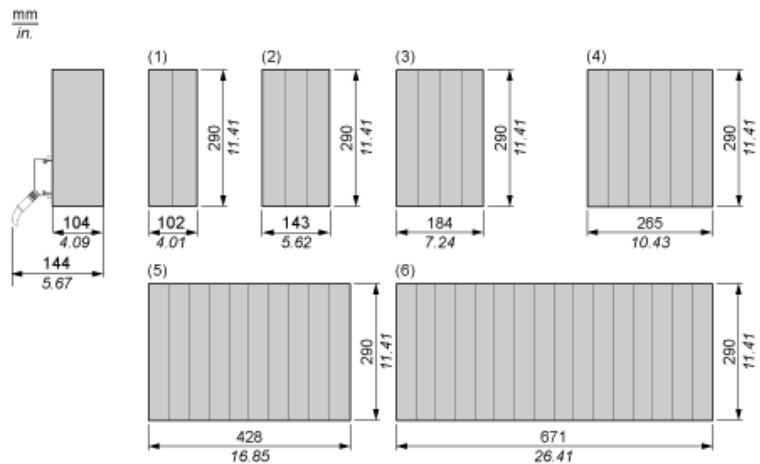
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental 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

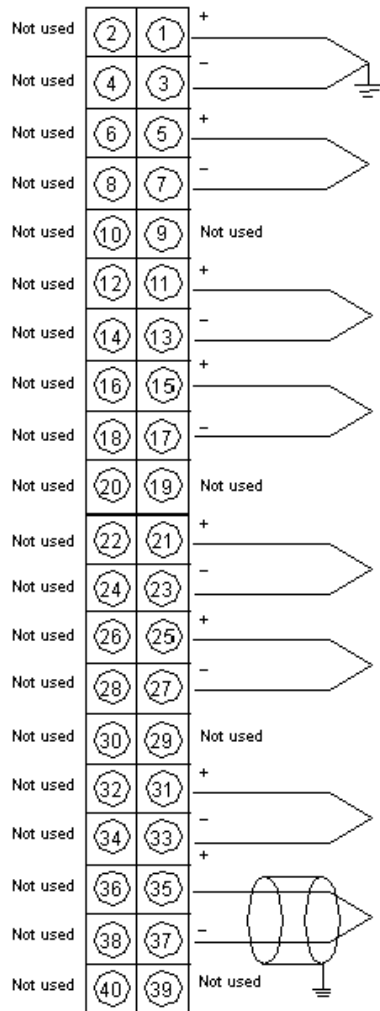
Dimensions of Modules and Racks



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

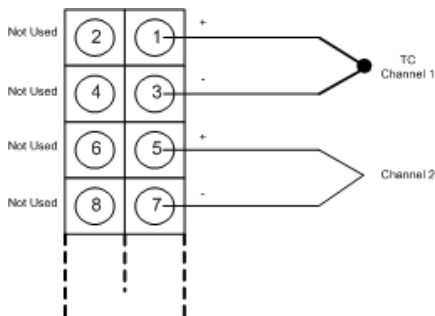
Thermocouple Input 8-Channel Module

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.



140ATI03000C is replaced by:



Harsh environment BMXART0814H
analog input module X80 - 8 inputs - temperature
Qty 1

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