

# 140ATI03000

## analog input module Modicon Quantum - 8 I thermocouple

Product availability : Stock - Normally stocked in distribution facility

Price\* : 4578.15 USD



### 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 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 +/- 2 °C plus + 0.1 % of reading thermocouple E
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 for 60 s

	2500 V DC for 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	1 LED green bus communication is present (Active) 1 LED red external fault 8 LEDs green channel is turned on 8 LEDs red channel fault
Bus current requirement	280 mA
Power dissipation in W	1.5 W
Module format	Standard
Product weight	0.66 lb(US) (0.3 kg)

## Environment

Standards	CSA C22.2 No 142 UL 508
Product certifications	FM Class 1 Division 2 CUL
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	9.14 V/yd (10 V/m) 80...1000 MHz conforming to 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	00785901792239
Nbr. of units in pkg.	1
Package weight(Lbs)	1
Returnability	Y
Country of origin	FR

## Offer Sustainability

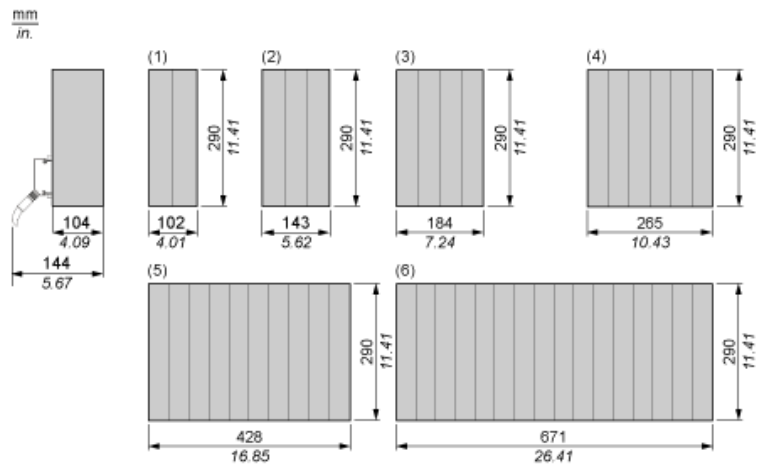
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0901 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Available

## Contractual warranty

Warranty period	18 months
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Racks for Modules Mounting

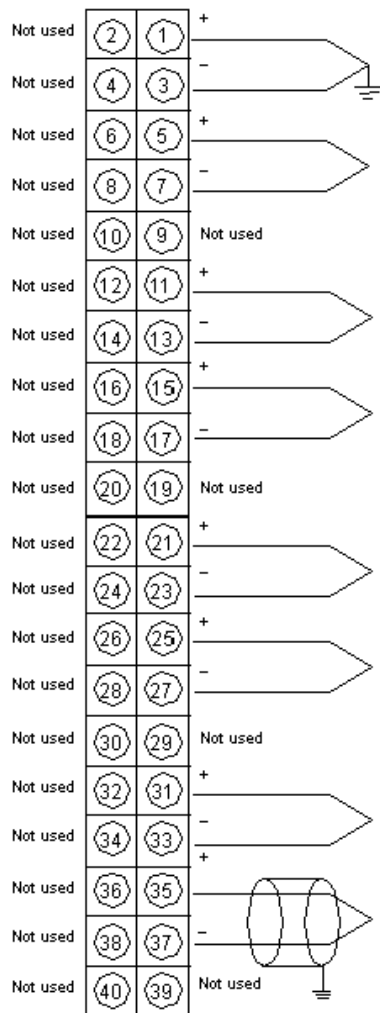
Dimensions of Modules and Racks



- (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.

