

Product data sheet

Specifications



analog input module Modicon Quantum - 8 I multirange

140ACI03000

⚠ Discontinued on: Dec 31, 2022

⚠ To be end-of-service on: Dec 31, 2030

⚠ Discontinued

Main

| | |
|---------------------------|---|
| Range Of Product | Modicon Quantum automation platform |
| Product Or Component Type | Analogue input module |
| Type Of Filter | Single pole low pass - 3 dB at 15 Hz +/- 20 % |

Complementary

| | |
|---|--|
| Analogue Input Number | 8 |
| Input Type | Differential |
| Addressing Requirement | 9 input words |
| Analogue Input Resolution | 12 bits |
| Linear Measuring Range | 1...5 V 4...20 mA |
| Absolute Maximum Input | 50 V DC 25 mA |
| Input Impedance | 250 Ohm current +/- 0.01 % > 20 MOhm voltage |
| Absolute Accuracy Error | +/- 0.05 % of full scale +/- 0.1 % of full scale maximum |
| Linearity Error | +/- 0.04 % |
| Accuracy Drift According To Temperature | +/- 0.0025 % of full scale/°C <= 0.005 % of full scale/°C |
| Common Mode Rejection | > - 72 dB 60 Hz |
| Isolation Between Channels And Bus | 1000 V DC 3000 V DC for 60 s |
| Isolation Between Channels | 30 V DC |
| Update Time | 5 ms |
| Fault Type | Broken wire 4...20 mA Undervoltage range 1...5 V |
| Marking | CE |
| Local Signalling | 1 LED (green) for bus communication is present (Active) 1 LED (red) for external fault 8 LEDs (green) for channel is turned on 8 LEDs (red) for channel fault |
| Bus Current Requirement | 240 mA |
| Power Dissipation In W | 2 W |
| Module Format | Standard |

List Price displayed is VAT EXCLUSIVE.

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

| | |
|------------|--------|
| Net Weight | 0.3 kg |
|------------|--------|

Environment

| | |
|---------------------------------------|---|
| Standards | UL 508 CSA C22.2 No 142 |
| 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 | 10 V/m 80...1000 MHz conforming to IEC 801-3 |
| Ambient Air Temperature For Operation | 0...60 °C |
| Ambient Air Temperature For Storage | -40...85 °C |
| Relative Humidity | 95 % without condensation |
| Operating Altitude | <= 5000 m |

Packing Units

| | |
|------------------------------|---------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 4.8 cm |
| Package 1 Width | 16.5 cm |
| Package 1 Length | 31.0 cm |
| Package 1 Weight | 450.0 g |
| Unit Type Of Package 2 | S03 |
| Number Of Units In Package 2 | 7 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 3.58 kg |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability



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Well-being performance

| | | |
|---|---|---------------------|
|  | Mercury Free | |
|  | Rohs Exemption Information | Yes |
| 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 | |

Dimensions Drawings

Racks for Modules Mounting

Dimensions of Modules and Racks

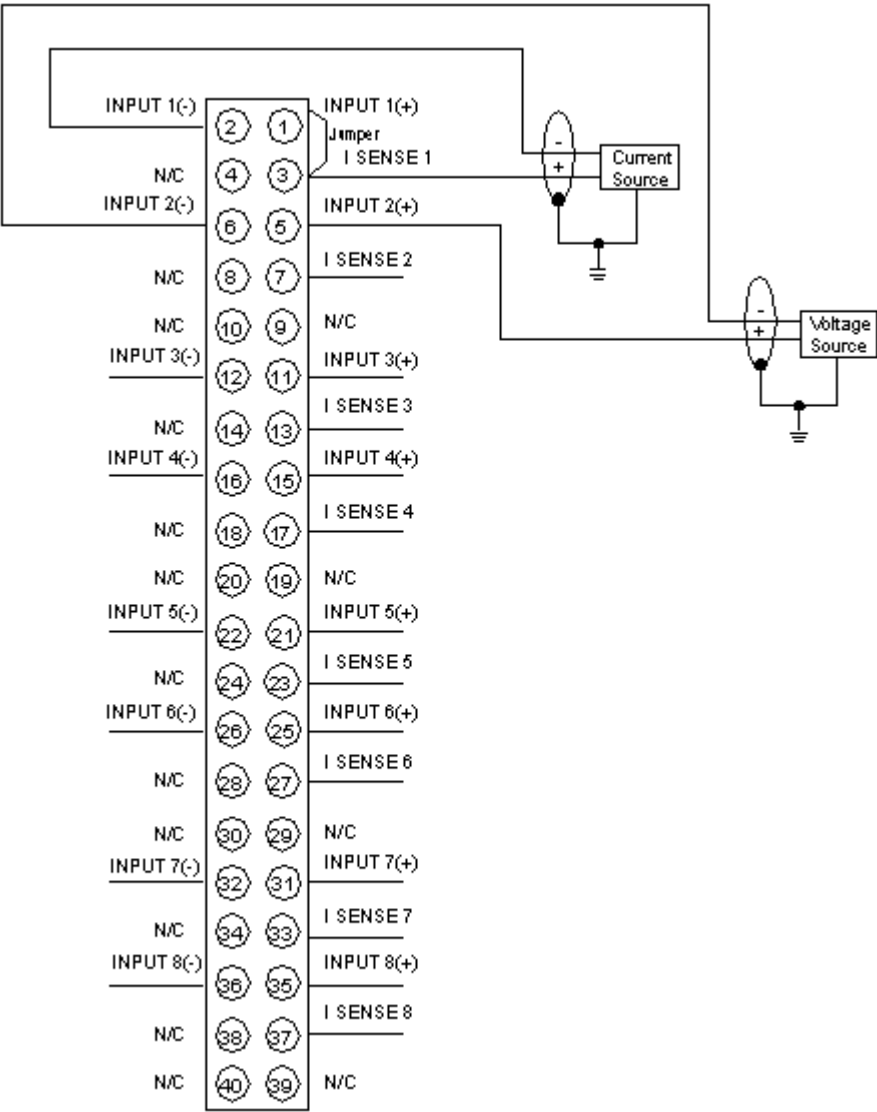


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

Analog Input 8-Channel Unipolar Module

Wiring Diagram



N/C Not Connected

The maximum channel to channel working voltage cannot exceed 30 Vdc.