# Product data sheet

Specifications



## analog input module Modicon Quantum - 8 I multirange

140ACI03000

Discontinued on: Jan 15, 2023

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

Discontinued - Service only

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

## 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<br>4...20 mA |
| **Absolute maximum input** | 50 V DC<br>25 mA |
| **Input impedance** | 250 Ohm current +/- 0.01 %<br>> 20 MOhm voltage |
| **Absolute accuracy error** | +/- 0.05 % of full scale<br>+/- 0.1 % of full scale maximum |
| **Linearity error** | +/- 0.04 % |
| **Accuracy drift according to temperature** | +/- 0.0025 % of full scale/°C<br><= 0.005 % of full scale/°C |
| **Common mode rejection** | > - 72 dB 60 Hz |
| **Isolation between channels and bus** | 1000 V DC<br>3000 V DC 60 s |
| **Isolation between channels** | 30 V DC |
| **Update time** | 5 ms |
| **Fault type** | Broken wire 4...20 mA<br>Undervoltage range 1...5 V |
| **Marking** | CE |
| **Local signalling** | 1 LED (green) for bus communication is present (Active)<br>1 LED (red) for external fault<br>8 LEDs (green) for channel is turned on<br>8 LEDs (red) for channel fault |
| **Bus current requirement** | 240 mA |
| **Power dissipation in W** | 2 W |
| **Module format** | Standard |

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

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

| | |
|---|---|
| **Product Weight** | 0.7 lb(US) (0.3 kg) |

## Environment

| | |
|---|---|
| **Standards** | UL 508<br>CSA C22.2 No 142 |
| **Product Certifications** | FM Class 1 Division 2<br>cUL |
| **Resistance to electrostatic discharge** | 4 kV contact IEC 801-2<br>8 kV on air IEC 801-2 |
| **Resistance to electromagnetic fields** | 9.1 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** | US1PC2118155 |
| **Discount Schedule** | PC21 |
| **GTIN** | 3595861126565 |
| **Returnability** | Yes |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 1.9 in (4.8 cm) |
| **Package 1 Width** | 6.5 in (16.5 cm) |
| **Package 1 Length** | 12.2 in (31.0 cm) |
| **Package weight(Lbs)** | 15.9 oz (450.0 g) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Use Better

#### Materials and Substances

| | |
|---|---|
| EU RoHS Directive | Compliant |
| 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 |

### Use Longer

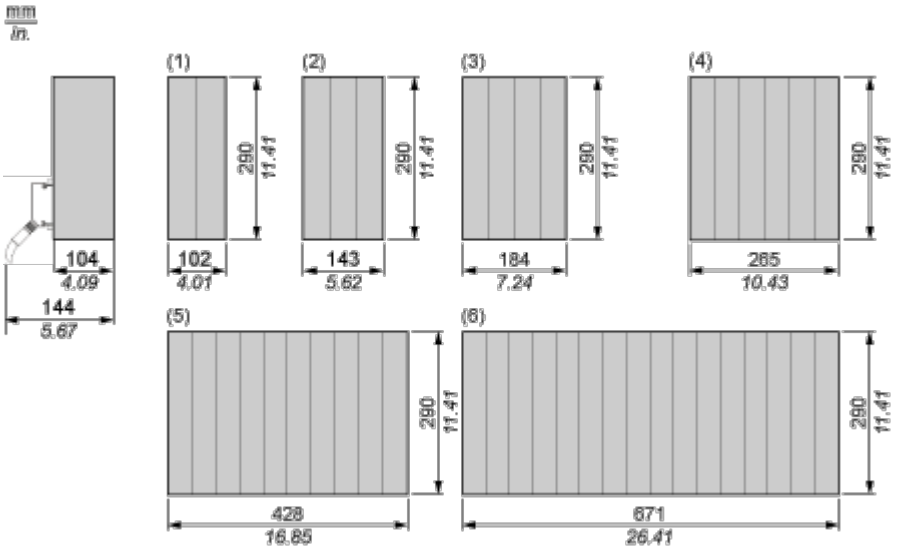
#### Lifetime extension

| | |
|---|---|
| Repair | No |

Dimensions Drawings

## Racks for Modules Mounting

### Dimensions of Modules and Racks




(1) 2 slots

(2) 3 slots

(3) 4 slots

(4) 6 slots

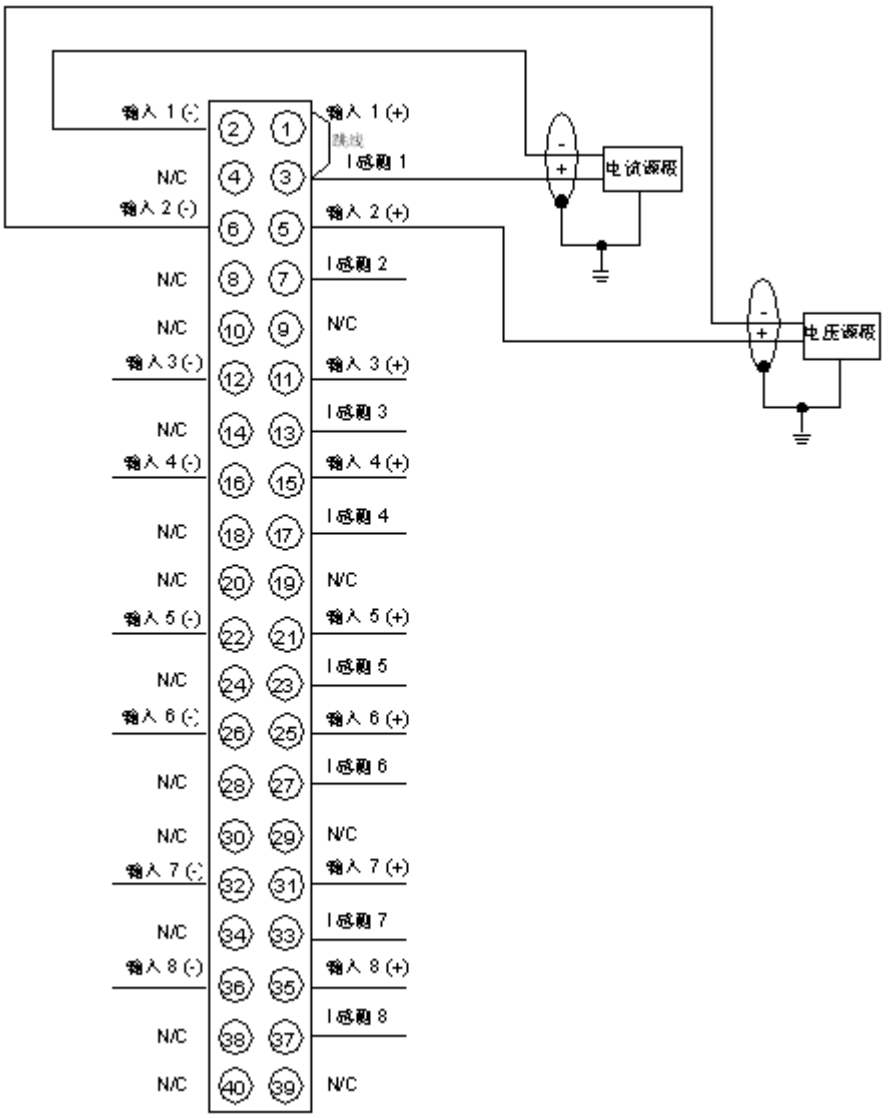
(5) 10 slots

(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.