

## analog input output module Modicon Quantum - 4 I - 2 O

140AMM09000

- Uscontinued on: Jan 15, 2023
- ! To be end-of-service on: Dec 31, 2030

① 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	Input/output analog module	
Type of filter	Single pole low pass - 3 dB at 21 Hz +/- 20 % input circuit	

## Complementary

I/O modularity	6 channels	
Addressing requirement	2 output words 5 input words	
Analogue input number	4	
Analogue input type	Bipolar current +/- 20 mA 15 bits DC Bipolar voltage +/- 10 V 16 bits DC Bipolar voltage +/- 5 V 15 bits DC Unipolar current 020 mA 15 bits DC Unipolar offset current 420 mA 14 bits DC Unipolar offset voltage 15 V 14 bits DC Unipolar voltage 010 V 16 bits DC Unipolar voltage 05 V 15 bits DC	
Absolute maximum input	+/- 25 mA current +/- 50 V voltage	
Input impedance	> 10 MOhm voltage > 250 Ohm current	
Offset	+/- 0.0014 % of full scale maximum/°C 060 °C input circuit	
Gain shift	+/- 0.002 of full scale maximum 060 °C input circuit	
Common mode rejection	> 80 dB 50/60 Hz input circuit	
Analogue output number	2	
Analogue output range	420 mA	
Analogue output resolution	12 bits	
Loop voltage	060 V DC with external resistance output circuit 730 V DC output circuit	
Maximum voltage drop	<30 V DC 20 mA	
Setting time	900 µs to +/- 0.1 % of the final value output circuit	
External power requirement	730 V output circuit	
Absolute accuracy error	+/- 0.004 % of full scale 32140 °F (060 °C) output circuit +/- 0.007 %/°C of full scale maximum 32140 °F (060 °C) output circuit +/- 0.03 % 77 °F (25 °C) input circuit +/- 0.05 % of full scale maximum 77 °F (25 °C) input circuit +/- 0.20 % of full scale 77 °F (25 °C) output circuit	

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

Linearity	2.4 % over and under range voltage	
	2.4 % over range, and - 9.6 % under range current	
	Monotonic +/- 1 LSB input	
	Monotonic +/- 1 LSB output	
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Update time	15 ms output circuit	
	320 ms input circuit	
Fault type	Open circuit input/output circuit	
	Overtacking scale (unipolar) input circuit	
	Status byte output circuit	
Isolation between channels	500 V AC for 1 minute	
	750 V DC for 1 minute	
Isolation between channels and	500 V AC for 1 minute	
bus	750 V DC for 1 minute	
<del></del>		
Isolation between input channel	500 V for 1 minute	
and output channel	750 V for 1 minute	
Marking	CE	
Local signalling	1 LED (green) for bus communication is present (Active)	
0 0	1 LED (red) for external fault	
	6 LEDs (green) for channel is turned on	
	6 LEDs (red) for channel fault	
	6 LEDS (rea) for charmer lault	
Bus current requirement	350 mA	
Module format	Standard	
Product Weight	0.7 lb(US) (0.3 kg)	

## **Environment**

Product Certifications	FM Class 1 Division 2 C-Tick.1	
Standards	UL 508 CSA C22.2 No 142	
Resistance to electromagnetic fields	9.1 V/m (10 V/m) 802000 MHz IEC 801-3	
Ambient Air Temperature for Operation	32140 °F (060 °C)	
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)	
Relative Humidity	95 % without condensation	
Operating altitude	<= 16404.2 ft (5000 m)	

# Ordering and shipping details

Category	US1PC2118155	
Discount Schedule	PC21	
GTIN	3595861132078	
Returnability	No	

# **Packing Units**

Unit Type of Package 1	PCE	
Nbr. of units in pkg.	1	
Package 1 Height	1.97 in (5.0 cm)	
Package 1 Width	6.46 in (16.4 cm)	
Package 1 Length	12.20 in (31.0 cm)	
Package weight(Lbs)	16.3 oz (461.0 g)	

# **Contractual warranty**

Warranty

Aug 28, 2025

18 months



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 >

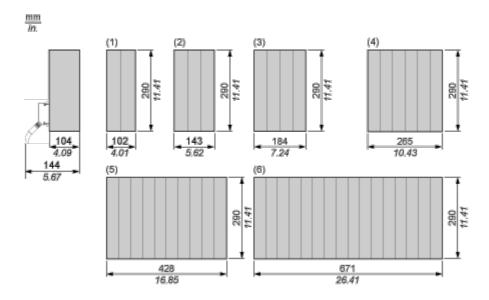
### **Use Better**

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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

## **Dimensions Drawings**

## **Racks for Modules Mounting**

### **Dimensions of Modules and Racks**

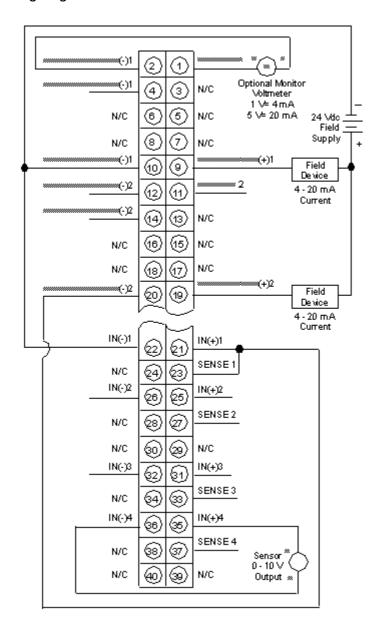


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

### Connections and Schema

## **Analog Input/Output Module**

## Wiring Diagram



#### N/C Not Connected

- Jumpers are required between IN (+) and SENSE terminals for all current input ranges.
- Pins 1 ... 20 are outputs. Pins 21 ... 40 are inputs.
- For Inputs, the maximum channel to channel working voltage cannot exceed 30 Vdc.