Product datasheet





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

140AMM09000

- ! Discontinued on: 31 Dec 2022
- ! To be end-of-service on: 31 Dec 2030

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 - resolution: 15 bits DC Bipolar voltage +/- 10 V - resolution: 16 bits DC Bipolar voltage +/- 5 V - resolution: 15 bits DC Unipolar current 020 mA - resolution: 15 bits DC Unipolar offset current 420 mA - resolution: 14 bits DC Unipolar offset voltage 15 V - resolution: 14 bits DC Unipolar voltage 010 V - resolution: 16 bits DC Unipolar voltage 05 V - resolution: 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 at 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 at 060 °C output circuit +/- 0.007 %/°C of full scale maximum at 060 °C output circuit +/- 0.03 % at 25 °C input circuit +/- 0.05 % of full scale maximum at 25 °C input circuit +/- 0.20 % of full scale at 25 °C output circuit

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Linearity	2.4 % over and under range voltage
•	2.4 % over range, and - 9.6 % under range current
	3 <i>'</i>
	Monotonic +/- 1 LSB input
	Monotonic +/- 1 LSB output
Update Time	15 ms output circuit
	320 ms input circuit
Forth Torres	
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
Isolation Between Input Channel	500 V for 1 minute
And Output Channel	750 V for 1 minute
	750 V IOI 1 minute
Marking	CE
Local Signalling	1 LED (green) for bus communication is present (Active)
	1 LED (red) for external fault
	6 LEDs (green) for channel is turned on
	6 LEDs (red) for channel fault
	6 LEDS (red) for channel radii.
Bus Current Requirement	350 mA
Module Format	Standard
Net Weight	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	10 V/m 802000 MHz conforming to IEC 801-3
Ambient Air Temperature For Operation	060 °C
Ambient Air Temperature For Storage	-4085 °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	5.0 cm
Package 1 Width	16.4 cm
Package 1 Length	31.0 cm
Package 1 Weight	461.0 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	3.62 kg

Contractual warranty

Warranty

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18 months



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RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

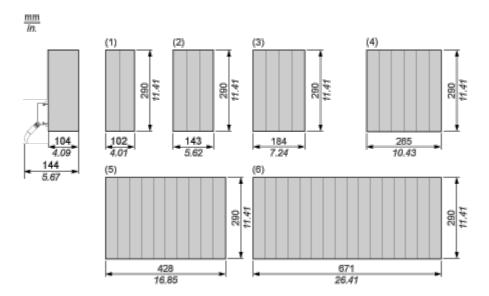
Certifications & Standards

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

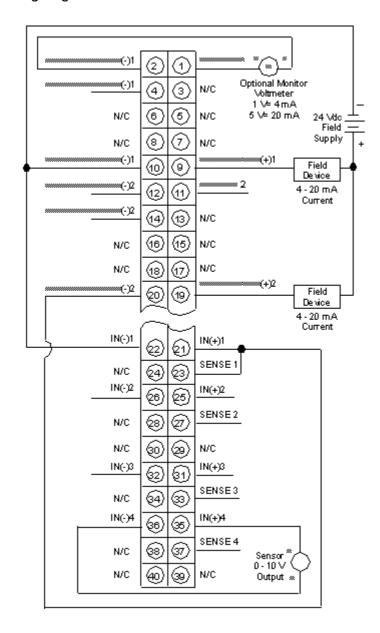


- (1) 2 slots
- (2) 3 slots
- (3) 4 slots
- (4) 6 slots
- (5) 10 slots
- (6) 16 slots

Connections and Schema

Analog Input/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.