Product data sheet
Characteristics

140AMM09000
analog input output module Modicon Quantum - 4 I - 2 O

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	5 input words 2 output 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 0...20 mA 15 bits DC Unipolar offset current 4...20 mA 14 bits DC Unipolar offset voltage 1...5 V 14 bits DC Unipolar voltage 0...10 V 16 bits DC Unipolar voltage 0...5 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 0...60 °C input circuit
Gain shift	+/- 0.002 of full scale maximum 0...60 °C input circuit
Common mode rejection	> 80 dB 50/60 Hz input circuit
Analogue output number	2
Analogue output range	4...20 mA
Analogue output resolution	12 bits
Loop voltage	0...60 V DC with external resistance output circuit 7...30 V DC output circuit
Voltage drop	30 V DC 20 mA
Setting time	900 µs to +/- 0.1 % of the final value output circuit

External power requirement	7...30 V output circuit
Absolute accuracy error	+/- 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 +/- 0.004 % of full scale at 0...60 °C output circuit +/- 0.007 %/°C of full scale maximum at 0...60 °C output circuit
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
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 bus	500 V AC for 1 minute 750 V DC for 1 minute
Isolation between input channel and output channel	500 V for 1 minute 750 V for 1 minute
Marking	CE
Local signalling	1 LED green bus communication is present (Active) 1 LED red external fault 6 LEDs green channel is turned on 6 LEDs red channel fault
Bus current requirement	350 mA
Module format	Standard
Product weight	0.3 kg

Environment

Product certifications	C-Tick.1 FM Class 1 Division 2
Standards	CSA C22.2 No 142 UL 508
Resistance to electromagnetic fields	10 V/m 80...2000 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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0842 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of Life Information
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months

140AMM09000 is replaced by:

Standard environment BMXAMM0600

mixed analog I/O module X80 - 4 inputs - 2 outputs

Qty 1

Reason for Substitution: End of life | Substitution date: 31 December 2021 | Not same dimensions/design - less AI res. 14 vs 16, non isol. Outputs vs. Quantum isolated outputs