Product data sheet
Characteristics

140ATI03000
analog input module Modicon Quantum - 8 I thermocouple



Commercial status
End of Commercialisation :

⚠ End of Commercialisation

Main

Range of product	Modicon Quantum automation platform
Product or component type	Analogue input module
Type of filter	Notch filter - 3 dB at 50/60 Hz Single pole low pass - 3 dB at 20 Hz

Complementary

Analogue input number	8
Addressing requirement	10 input words
Analogue input type	Thermocouple: - 210...760 °C for thermocouple J Thermocouple: - 270...1000 °C for thermocouple E Thermocouple: - 270...1370 °C for thermocouple K Thermocouple: - 270...400 °C for thermocouple T Thermocouple: - 50...1665 °C for thermocouple R Thermocouple: - 50...1665 °C for thermocouple S
Analogue input resolution	16 bits
Absolute accuracy error	+/- 2 °C plus + 0.1 % of reading thermocouple E +/- 2 °C plus + 0.1 % of reading thermocouple J +/- 2 °C plus + 0.1 % of reading thermocouple K +/- 2 °C plus + 0.1 % of reading thermocouple T +/- 4 °C plus + 0.1 % of reading thermocouple R +/- 4 °C plus + 0.1 % of reading thermocouple S
Linearity error	1 °C, 0.1 °C, 1 F, 0.1 F - 210...760 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 270...1000 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 270...1370 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 270...400 °C 1 °C, 0.1 °C, 1 F, 0.1 F - 50...1665 °C
Accuracy drift according to temperature	0.15 µV/°C + 0.0015 % of reading/°C max low level voltage
Common mode rejection	> - 120 dB 50/60 Hz
Isolation between channels and bus	1780 V AC for 60 s 2500 V DC for 60 s
Isolation between channels	300 V DC 220 V AC
Update time	1000 Ms
Fault type	Broken wire Overtacking scale
Marking	CE
Cold junction compensation	Internal 0…60 °C
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	280 MA

Power dissipation in W	1.5 W
Module format	Standard
Net weight	0.3 Kg

Environment

Standards	CSA C22.2 No 142 UL 508
Product certifications	cUL[RETURN]FM Class 1 Division 2
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	5.000 Cm
Package 1 Width	16.500 Cm
Package 1 Length	31.500 Cm
Package 1 Weight	425.000 G

Offer Sustainability

REACh free of SVHC	Yes
Mercury free	Yes
Sustainable packaging	No
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which

Contractual warranty

Warranty (in months)	18

Product Life Status : Post commercialisation

140ATI03000 may be replaced by any of the following products:



BMXART0814

Analog isolated low level input module, Modicon X80, 8 inputs, 40mV positive or negative

Qty 1

Substitution date: |