

Product datasheet
Characteristics

140ARI03010

analog input module Modicon Quantum - 8 I Ni / Pt
100, 200, 500, 1000



Main

Range of product	Modicon Quantum automation platform
Product or component type	Analogue input module

Complementary

Analogue input number	8
Input type	Differential
Addressing requirement	9 input words
Analogue input type	Temperature probe - 100...450 °C Pt 100, Pt 200, Pt 500, Pt 1000 Temperature probe - 200...850 °C Pt 100, Pt 200, Pt 500, Pt 1000 Temperature probe - 60...180 °C Ni 100, Ni 200, Ni 500, Ni 1000 Temperature probe 0.5 mA Ni 100, Ni 200, Ni 500, Ni 1000 Temperature probe 2.5 mA Pt 100, Pt 200, Ni 100, Ni 200
Analogue input resolution	13 bits
Input impedance	>= 10 MOhm
Absolute accuracy error	0.1 °C
Linearity error	+/- 0.01 % full scale +/- 0.5 °C
Accuracy drift according to temperature	+/- 0.5 °C at 25 °C +/- 0.9 °C at 0...60 °C
Isolation between channels and bus	2500 V DC for 60 s 1780 V AC 47...63 Hz for 60 s
Isolation between channels	300 Vrms AC
Update time	1200 ms 3 wires 1200 ms 3 wires 640 ms 2 wires/4 wires
Fault type	Broken wire Overtaking scale
Marking	CE
Local signalling	1 LED green bus communication is present (Active) 1 LED red external fault 8 LEDs green channel is turned on 8 LEDs red channel fault
Bus current requirement	200 mA
Power dissipation in W	1 W
Module format	Standard
Product weight	0.3 kg

Environment

standards	CSA C22.2 No 142 UL 508
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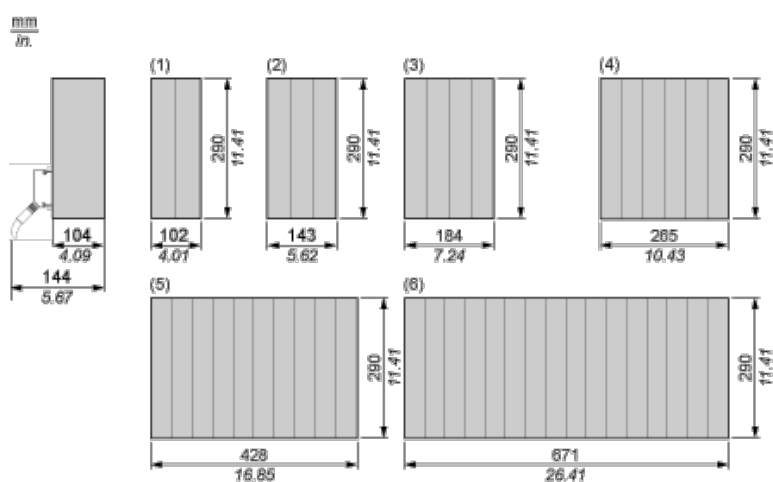
product certifications	CUL FM Class 1 Division 2
resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
resistance to electromagnetic fields	10 V/m 80...1000 MHz conforming to IEC 801-3
ambient air temperature for operation	0...60 °C
ambient air temperature for storage	-40...85 °C
relative humidity	95 % without condensation
operating altitude	<= 5000 m

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0822 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

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

RTD Input 8-Channel Module

Wiring Diagram

