



## 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 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
Maximum 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	+/- 0.004 % of full scale 32...140 °F (0...60 °C) output circuit +/- 0.007 %/°C of full scale maximum 32...140 °F (0...60 °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
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	For bus communication is present (Active) 1 LED (green) For external fault 1 LED (red) For channel is turned on 6 LEDs (green) For channel fault 6 LEDs (red)
Bus current requirement	350 mA
Module format	Standard
Net Weight	0.66 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	9.14 V/m (10 V/m) 80...2000 MHz IEC 801-3
Ambient Air Temperature for Operation	32...140 °F (0...60 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Relative Humidity	95 % without condensation
Operating altitude	<= 16404.2 ft (5000 m)



## Ordering and shipping details

Category	18155-QUANTUM I/O & POWER SUPPLIES
Discount Schedule	PC21
GTIN	3595861132078
Nbr. of units in pkg.	1
Package weight(Lbs)	16.26 oz (461.0 g)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.97 in (5 cm)
Package 1 width	6.46 in (16.4 cm)
Package 1 Length	12.20 in (31 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Weight	7.98 lb(US) (3.62 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes

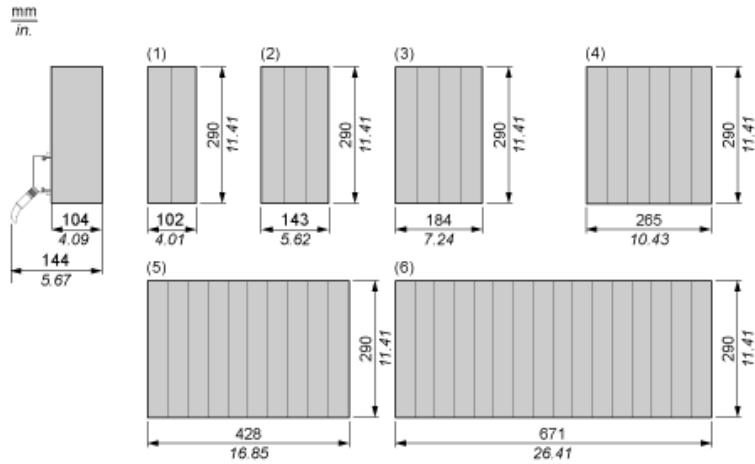
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

### Contractual warranty

Warranty	18 months
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Racks for Modules Mounting

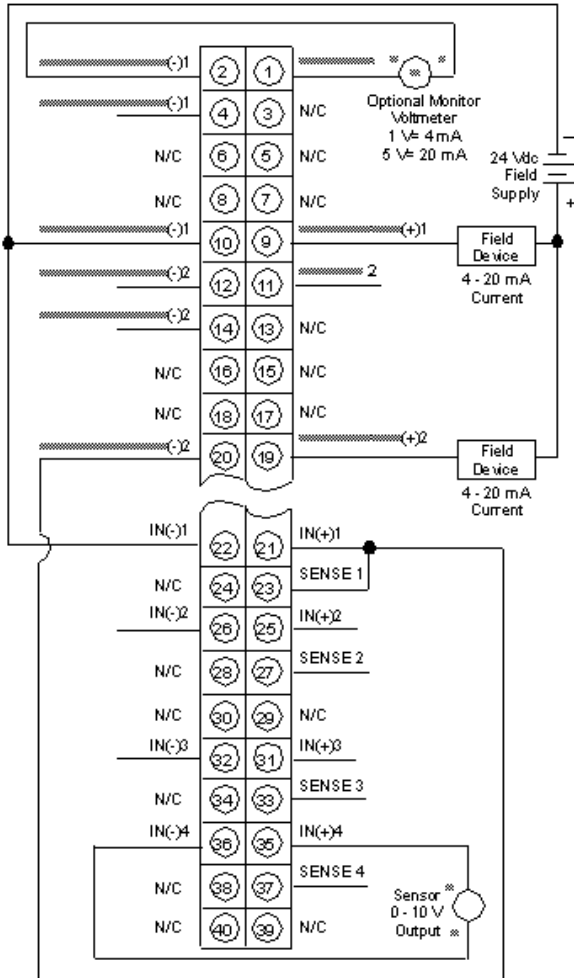
Dimensions of Modules and Racks



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

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.