


# Modicon Quantum automation platform

## Intrinsically safe I/O

Type	Analog input modules	
		
Number of channels	8	
Operating range	RTD: Platinum - 200 °C to + 850 °C (-328 to 1562 °F) Nickel - 60 °C to + 180 °C (-40 to 356 °F) Thermocouple: Types J,K,E,T,S,R,B -100...+100 mV, -25...+25 mV	Current input 4...20 mA 0...20 mA 0...25 mA
Resolution	RTD: 12 bits plus sign (0.1 °C) TC: 1 °C (default) 0.1 °C, 1 °F, 0.1 °F	Up to 25,000 counts
Isolation (channel to bus)	1780 VAC @ 47...63 Hz or 2500 VDC for 1 min.	
Accuracy error at 25 °C (77 °F)	RTD: ± 0.5 °C (32.9 °F) TC: (types J,K,E,T) ± 2 °C, ± 0.1 % of reading types S,R,B) ± 4 °C, ± 0.1 % of reading	Typical: ± 0.05% of full scale; maximum: ± 0.1% of full scale
Bus power required	400 mA	1.5 A
Addressing requirement	10 input words	9 input words
Type of module	140 AII 330 00	140 AII 330 10
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Intrinsically safe  
Analog output module



Intrinsically safe  
Discrete input module



Intrinsically safe  
Discrete output module



4...210 mA (0 to 4095)  
4...20 mA (0 to 16,000)  
0...20 mA (0 to 20,000)  
0...25 mA (0 to 25,000)

No load voltage: 8 VDC  
Short circuit current: 8 mA  
Switching point: 1.2 mA...2.1 mA  
Switching hysteresis: 0.2 mA

Load current max:  
each point: 45 mA @ 11 VDC  
each module: 360 mA  
Off state leakage per point: 0.4 mA  
Output voltage 24 VDC (open)

15 bits within 4...20 mA

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± 0.2% of full scale

2.5 A

400 mA

2.2 A, full load

8 output words

0.5 output words

0.5 output words

**140 AIO 330 00**

**140 DII 330 00**

**140 DIO 330 00**

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