


Modicon Quantum automation platform

Analog I/O

Type	Input modules			
				
Number of channels	8	16 differential or 16 externally tied single	8	
Operating range	4...20 mA 1...5 V	0...25 mA 0...20 mA 4...20 mA	0...25 mA, ±20 mA 4...20 mA 0...10 V, ± 10 V 0...5 V, ± 5 V 1...5 V	RTD (2-,3-, or 4-wire), Pt, Ni
Interfaces	1			
Resolution	12 bits	0...25 000 counts 0...20 000 counts 0...16 000 counts (default)	Up to 16 bits	12 bits + sign
Isolation (channel-to-channel)	30 V		200 V	300 V peak-to-peak
Addressing requirement	9 input words	17 input words	9 input words	
Bus power required	240 mA	360 mA	280 mA	200 mA

Module	140 ACI 030 00	140 ACI 040 00	140 AVI 030 00	140 ARI 030 10
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Input modules	Output modules	Combined I/O		
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8	4	8	4	4 in/2 out
Thermocouples type B, E, J, K, R, S, T, mV	4...20 mA	0...25 mA 0...20 mA 4...20 mA	0...10 V, ± 10 V 0...5 V, ± 5 V	Multi-range in/current out
1				4 in/1 out
16 bits	12 bits	0...25 000 counts 0...20 000 counts 0...16 000 counts (default) 0...4095 counts	12 bits	16 in/12 out
~ 220 V @ 47...63 Hz or = 300 V max.	~ 500 V @ 47...63 Hz or = 750 V for 1 minute	–	~ 500 V for 1 minute	Input : ~ ± 40 V max. Output : ~ 500 V = 750 V for 1 minute
10 input words	4 output words	8 output words	4 output words	5 input words 2 output words
280 mA	480 mA	550 mA	700 mA	350 mA

140 ATI 030 00	140 ACO 020 00	140 ACO 130 00	140 AVO 020 00	140 AMM 090 00
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