Modicon Quantum automation platform

Catalog

November 2015



Schneider Electric

Modicon Quantum automation platform

Analog I/O modules

Current/voltage outputs, mixed I/O

Type	Analog output module, 4 channels and 8 channels			Mixed analog I/O module
				
Number of channels	4	8	4	4 inputs and 2 isolated outputs
Input range	4…20 mA	0…25 mA 0…20 mA 4…20 mA	0…10 V 0…5 V ± 10 V ± 5 V	Inputs: 0…10 V, 0…5 V, 0…20 mA ± 10 V, ± 5 V, ± 20 mA 1…5 V, 4…20 mA Outputs: 4...20 mA
Resolution	12 bits	0…25 mA: 0…25,000 points 0…20 mA: 0…20,000 points 4…20 mA: 0…16,000 points (default) 4…20 mA: 0…4095 points	12 bits	Inputs: 16 bits max. Outputs: 12 bits
I/O addresses	4 output words	8 output words	4 output words	5 input words and 2 output words
Isolation between channels	500 V ∿ at 47…63 Hz or 750 V ⎓ for 1 minute	None	500 V ∿ at 47…63 Hz for 1 minute	Inputs: ± 40 V ⎓ max.
Bus current required	480 mA	550 mA	700 mA	350 mA
Maximum dissipated power	5.3 W	5.0 W	4.5 W	–
External power supply (U_s)	12...30 V ⎓	6...30 V ⎓ max.	–	–
External fuse	–		0.063 mA, 250 V 3AG fast-blow *(2)*	Depending on use
Online modification of configuration *(1)*	Yes			Yes
Functional safety certification	Non-interfering	–		–
Approvals	UL 508, CSA 22.2-142, CE, FM Class 1 Div. 2, ATEX Zone 2/22 *(3)*			UL 508, CSA 22.2-142, CE, FM Class 1 Div. 2, ATEX Zone 2/22 *(3)*
Type of module	**140ACO02000**	**140ACO13000**	**140AVO02000**	**140AMM09000**
Page	3/22			3/22

(1) For online modification of configuration, see page 2/37.
(2) External fuse to be used on the "Master Override" signal when it is connected to an external source.

(3) Only Conformal Coating versions, depending on model, are ATEX Zone 2/22 certified. For more information, see pages 8/2 to 8/9.