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Analog IO Module, 8 Voltage Inputs, 4 Voltage Outputs, MKS System Bus



Overview

The AS11880G-12 Analog Input/Output module provides a compact and high density solution for integrating up to 8 voltage input and 4 voltage output channels with MKS Automation Platform PAC or CM modules using an MKS System bus. Analog IO modules support a variety of input and output ranges, to interface any type of analog I/O with the MKS platform. Supported voltage inputs and outputs are configurable within the following ranges: 0-5V, 0-10V, ±5V, ±10V.

Technical Specs

Type	Analog Input/Output Module
ADC Native Resolution	16-bit
Bus	MKS System
Input	Voltage
Number of Inputs	8 (differential only)
Output	Voltage
Number of Outputs	4, differential or single ended (configured by the user)
Minimum Precision	14 noise-free bit for 95% of readings over full voltage range
Input & Output Ranges	0-5 V, 0-10 V, ±5 V, ±10 V
Output Voltage Range	-10 - 9.9997 Volts
Current	0-20ma , 4-20ma (Factory configurable between voltage and current)
Anti-alias HW Filtering	200Hz ±20%, 6dB/octave minimum
Input Voltage Measurement Range	-10 - +9.9997 V
DAC Native Resolution	16-bit
Minimum Input CMRR	50 dB, 0-1 kHz
Maximum Output Current	5mA, into a 2 kOhm, 10 nF load

Minimum Common Mode Voltage Range	±8 V
Minimum Input Impedance	10 MOhm
Maximum Power Consumption per Module	Assuming all AOs are current outputs @20mA = 24 V_IO@ 0.25 Amp, 24 V_CORE@ 0.15 Amp
Output Accuracy at 25°C Ambient	±1.2 mV measured at IO connector with 2 kOhm load
Output Accuracy Temperature Drift (20°C - 35°C)	0.02% of output value
Pull Down Resistors on + and - Inputs	10 MOhm to AGround
Protection	ESD to IEC 61000-4-2 ±4 kV contact, short to 24 V, +15 V, or -15 V
Sampling Rate	6.25 khz (160 µSec, for all 8 channels)
Operating Temperature	0 - 55°C
Storage Temperature	-40 - 85°C
Altitude	Up to 2000 meters
Humidity	5 - 95% non-condensing
Dimensions	35 x 125 x 92.3 mm (1.4 x 3.3 x 4.9 in.)
Mounting	DIN rail
Compliance	CE

Need help?

Contact an Applications Specialist by sending us an email

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