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Technical Sales
United States
(866) 531-6285
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NI cFP-AIO-610

8-Channel Combination Analog Input/Output Module for Compact FieldPoint

- 4 analog input channels for ±30 V or ±20 mA
- 4 analog voltage output channels for 0 to 10 or ±10 V
- 1.4 kHz update rate
- 100 mA current input protection and short-circuit protection
- 12-bit resolution
- -40 to 70 °C operating range

Overview

The National Instruments cFP-AIO-610 is an 8-channel, single-ended, combination analog input/analog output module. It can measure four channels of voltage or mA current loops from industrial sensors and transmitters and can output four channels of 0 to 10 or ±10 V to control valves, gauges, and other industrial actuators. The NI cFP-AIO-610 has an internal update rate of 1.4 kHz, ideal for low-channel-count systems or PID control. The module includes overranging and onboard diagnostics to ensure trouble-free installation and maintenance. The module also makes programming easier by automatically scaling and linearizing input and output signals so you avoid the step of converting binary numbers into engineering units in your control or monitoring software. The cFP-AIO-610 module is calibrated according to NIST-traceable calibration standards, ensuring accurate and reliable analog measurement and control.

Specifications

Specifications Summary

General	
Product Name	cFP-AIO-610
Product Family	Industrial I/O
Part Number	777318-610
Operating System/Target	Windows , Real-Time
LabVIEW RT Support	Yes
Form Factor	Ethernet , Compact FieldPoint
Measurement Type	Voltage , Current

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Isolation Type	Bank Isolation
RoHS Compliant	No
Signal Conditioning	0-20 mA current input
Analog Input	
Channels	0 , 4
Single-Ended Channels	4
Differential Channels	0
Resolution	12 bits
Sample Rate	1.4 kS/s
Bandwidth	350 Hz
Max Voltage	30 V
Maximum Voltage Range	-30 V , 30 V
Maximum Voltage Range Accuracy	14.65 mV
Minimum Voltage Range	0 V , 5 V
Minimum Voltage Range Accuracy	1.22 mV
Maximum Current Range	-20 mA , 20 mA
Maximum Current Range Accuracy	9.77 µA
Minimum Current Range	4 mA , 20 mA
Minimum Current Range Accuracy	3.91 µA
Input Impedance	1.5 MOhm
Simultaneous Sampling	No
Analog Output	
Channels	4
Resolution	12 bits
Output Type	Sourcing
Max Voltage	10 V
Maximum Voltage Range	-10 V , 10 V
Maximum Voltage Range Accuracy	4.88 mV
Minimum Voltage Range	0 V , 10 V
Minimum Voltage Range Accuracy	2.44 mV
Update Rate	1.4 kS/s

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