

Xpert Analog I/O Module 10 Channels



Overview

The Analog I/O Module (ADC) has ten analog I/O lines, an excitation voltage, switched battery output, & built-in transient protection. This analog I/O module is compatible with the Xpert and XLite 9210 Dataloggers.

Features

- ▶ Ten inputs configurable as 10 single ended channels or 5 differential inputs or a combination of single ended and differential inputs.
- ▶ 16 bit resolution
- ▶ Input gain settings for increased resolution for low level signals
- ▶ Continuous self-calibration
- ▶ Industrial temperature range operation -40 to +60°C
- ▶ Multiple sampling rates and digital filtering



SPECIFICATIONS

Specifications are subject to change without notice.

Input Range	-.01 to 5V (any input with respect to ground, single ended or differential)
A/D Range	
Single Ended	0-5 V, + 78 mV, +19.5 mV (with respect to ground)
Differential	+2.5V, + 78 mV, +19.5 mV (+ input with respect to - input)
CMRR	120 dB typ
Input Impedance	> 10 Gohm typ
Accuracy	0.002% of 5V typ
	0.003% of 78mV typ HiGain
	0.03% of 19.5mV typ x128Gain
Temp Coefficient	5 ppm/C typ
Ratio Accuracy	Limited by A/D resolution (no non-linearities or TC seen).
Noise floor	RMS noise typically < 1bit on 78mV scale and above.
Excitation	2.5V (up to 50 mA)
SwBat	250 mA
Protection	Multistage input protection including spark gaps.
Device Dimensions	5" x 4.5" x 1.3"
Weight	.5 lbs.

ORDERING & SHIPPING

Part #	
8080-0007	Xpert Analog I/O Module: 10 Channel, 16 Bit
Shipping Height	8 in. (20.4 cm)
Shipping Length	8 in. (20.4 cm)
Shipping Width	3 in. (7.7 cm)
Shipping Weight	4 lbs. (1.8 Kg)