

ADC-20 / ADC-24 High Resolution Data Loggers

Features:

- Available with 20 or 24 bit resolution, ideal for detecting small signal changes
- Ultra-high accuracy, up to 0.1% of reading
- True differential inputs for excellent noise rejection, also configurable as single-ended
- Up to 7 programmable gain ranges allow compatibility with wide range of sensors and signals
- Galvanic isolation from PC eliminates noise pickup
- 4 bidirectional digital I/O channels
- USB connection and power from PC
- Supplied with PicoLog data logging software and 32-bit programming libraries
- Compatible with Windows 98SE, ME, 2000 and XP

The ADC-24 and ADC-20 high resolution data loggers offer the ultimate in precise and accurate readings. Features such as true differential inputs, galvanic isolation, and software selectable sample rates all contribute to a superior noise free resolution.

The ADC-24 PC Data Logger is equipped with a 24 bit A/D converter, and can maintain an accuracy of 0.1%. The 8 true differential inputs may be configured as 16 single-ended inputs or any combination in between, e.g. 4 differential and 8 single ended.

Power and connection to a PC or laptop is via a USB 1.1 or USB 2.0 port. Using the supplied PicoLog software, users can record, monitor and analyse collected data, even exporting to 3rd party applications such as MS Excel.

Specification	USB ADC-20	USB ADC-24
Resolution	20 bits	24 bits
Number and type of channels	8 single ended / 4 differential, or any combination in between	16 single ended / 8 differential, or any combination in between
Conversion time per channel	660ms, 340ms, 180ms, 100ms, 60ms	
Accuracy	0.2%	0.1% (0.2% - using 2500mV input range)
Overload protection	±30V	
Input range (voltage)	2 ranges (±2500mV & ±1250mV)	7 ranges (±2500mV to ±39mV)
Digital I/O	None	4 bidirectional (3.3V CMOS)
Reference output	+2.5V	
Input connector	D25 female	
Power and PC connection	Via USB 1.1 or USB 2.0	