

Accessories

SENSOR DATA ACQUISITION SYSTEMS

- ▼ Lightweight, Pocket-Sized
- ▼ Stand-alone, High Memory Capacity
- ▼ Fast, Easy Setup - No Programming



AD2000 Ready DAQ AD128 Data Logger

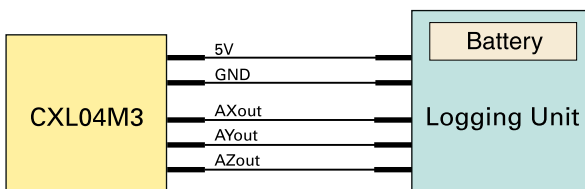
The AD128 is a complete stand-alone data acquisition system, including a pocket-sized logging unit, Configuration & Analysis Software and all accessories. The system provides a method for logging data directly from Crossbow accelerometers. The AD128 logging unit will operate from a 9 volt battery for up to 3 months when power is not being supplied to sensors. While supplying power to Crossbow accelerometers, the logging unit will operate from a single battery for 8 to 150 hours, depending on the accelerometer model.

The AD2000 is an enhanced data acquisition system with 2 megabytes of memory, 12 input channels, and peak-record and event duration filter mode options for use with accelerometers. The AD2000 works with power supplies up to 35 Volts and includes transient and surge protection to 80 Volts.

The full-featured Configuration & Analysis Software is shipped with each system and enables immediate use of the system right out of the box. The form-based setup is extremely intuitive and makes immediate use of the system possible, for evaluation and useful data collection with Crossbow accelerometers. Once data has been recorded, a single mouse click retrieves the data into a built-in spreadsheet, from which another mouse click generates a pre-formatted graph for immediate analysis. The Configuration and Analysis Software runs on Microsoft® Windows®.

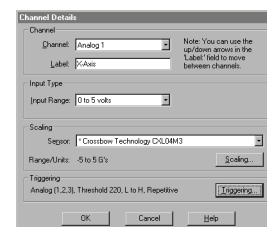
The AD128 logging unit records from all 8 analog and 14 digital inputs (or selected inputs) simultaneously, as fast as 500 samples per second, with a single touch of a button. Alternatively, recording can be triggered by a specified condition on the input signal levels, thus eliminating unwanted information.

Sample records are logged with the time and date of the built-in real-time clock. The 10-year battery-backed data memory and software interlock ensure that data won't be lost or accidentally erased. All inputs are protected to ± 20 volts.

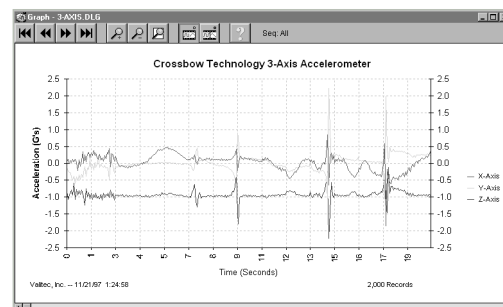


Specifications	AD128 AD2000	Remarks
Inputs		
AD128	8 Analog	14 Digital
AD2000	8 Analog	4 Digital
Analog		
Input Voltage Range (V)	0 to 5	
Resolution (mV)	20	
Absolute Accuracy (mV)	±10	
Input Bias Current (µA)	400	
Digital		
"Going High" Threshold (V)	3.5	Maximum
"Going Low" Threshold (V)	1.0	Minimum
Input Bias Current (µA)	±10	
Sampling Frequency (Hz)	Fast as 500	slow as 99 (min.)
(all channels)		
Data Storage		
AD128 (samples)	130,000	
AD2000 (samples)	1,053,776	
Recording Duration (sec. to yrs)	0.002s - Years	
Data Memory Battery Life (years)	10 years	
Operating		
Power Supply		
Voltage (V)	7 to 12	(9 V battery/adapter)
Voltage (V) universal input	8 to 35	AD2000 only
Current		
Standby (µA)	300	
Recording		
AD128 (mA)	4	only while sampling
AD2000 (mA)	< 15	only while sampling
LED Indication (sampling) (mA)	10	can be disabled
Battery Life (months)		
	Up to 3	9 V Alkaline
	Up to 6	Lithium
Power Adapter (included) (V)	110	9V 200mA AC Adapter
Temperature		
Operating (°C)	-10 to +60	
Storage (°C)	-20 to +70	
Communication		
RS-232 Interface		
Baud Rate		
AD128 (bps)	9600	
AD2000 (bps)	9600 to 115.2K	
Connection	9-pin, female, standard DB	
Data Format	8 data, no parity, 1 stop bit	
Physical		
Size	(in)	5.8" X 3.6" X 1.3"
	(cm)	14.7 x 9.2 x 3.3
Weight	(oz)	8
Connector Type (Input Signals)		
		Standard DB 25-pin

Specifications subject to change without notice



Scale and trigger setup



Plotting features enable immediate analysis and presentation-quality graph creation. Complete with scroll, zoom, scale, anotate, 2D, 3D, and other

Ordering Information

Model	Description	Input Range	Storage (Samples)	Supply Voltage
AD128	Data Logger Unit	0 - 5 V	130,000	7 - 12 V
AD2000	ReadyDAQ	0 - 5 V	1,053,776	8 - 35 V

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