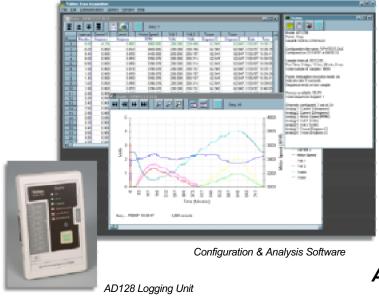


Model AD128



Stand-Alone Data Acquisition System



Description

The AD128 is a complete stand-alone data acquisition system, including a pocket-sized logging unit, Configuration & Analysis Software and all accessories. This system provides a method for recording directly from industry-standard sensors, instruments and other circuits with output voltages in the range of 0 to 5 volts or 0 to 10 volts, and thermistor temperature probes.

The AD128 logging unit will operate from a 9 volt battery for up to 3 months while recording from all 8 analog and 16 digital inputs. Recording can be as slow as one reading every 99 minutes or as fast as 500 per second, sampling all inputs simultaneously. Optionally, recording may be triggered by a specified condition on the input signal levels, eliminating unwanted information.

Sample records are time-stamped 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.

The full-featured Configuration & Analysis Software V4.0 (C&A V4.0) 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 requires no programming. Once data has been recorded, a single mouse click retrieves data into a built-in spreadsheet. Another mouse click generates a preformatted graph for immediate analysis. C&A Software runs on Windows 95, NT and 3.1.

Features

- Lightweight, pocket-sized
- Stand-alone
- Fast, easy setup
- Event-based recording options
- 10-year battery backup
- Runs on Windows 95, NT and 3.1

Applications

Laboratory Data Acquisition Materials Testing Field Data Collection Process Monitoring & Control Quality Audit, Parts Measuring Assembly & Calibration Fixturing

Order Information

Systems Include: AD128 Logging Unit 9V Battery C&A Software V4.0 AC Wall Adapter 9-pin PC Communication Cable 1 Year Warrantv 25-pin Sensor Interface Cable Free Software Upgrades Product Input Types Order No. 5 Volt Analog/Digital 8 analog, 0 to 5V AD128 16 discrete 10 Volt Analog/Digital 8 analog, 0 to 10V AD128-10 16 discrete Temperature 8 temperature AD128-T8 8 discrete 5 Volt Analog/Digital AD128-T2 6 analog, 0 to 5V 2 temperature, 14 discrete with Temperature Temperature/Digital 6 temperature, 10 discrete AD128-T6 with 5 Volt Analog 2 analog, 0 to 5V 10 Volt Analog/Digital 6 analog, 0 to 10V AD128-10T2 with Temperature 2 temperature, 14 discrete Temperature/Digital 6 temperature, 10 discrete AD128-10T6 with 10 Volt Analog 2 analog, 0 to 10V **Optional Accessories** Order No. DB25 / Screw Term. Board (3.5"x2") DB25TRM 6-ft. DB25 - DB25 cable (for use with DB25TRM) CL25-6 Nema 12 Enclosure, stainless steel, WE128 hinged, quick-release, 6" x 8" x 4" Thermistor Sensor/Lead, 30k, -10 to 150 °C TP-301-XX** Thermistor Sensor/Lead, 10k, -30 to 120 °C TP-101-XX** ** XX = length in feet

Valitec Specifications

INPUTS

| INPUIS | | | |
|---------------------------|--------------|-----------------|-----------------------|
| Analog | | | |
| Input Voltage Rang | e | 0 to 5 V | (AD128-10: 0 to 10V) |
| Resolution | | 20mV (| (AD128-10: 40mV) |
| Absolute Accuracy | | ± 10mV (| (AD128-10: ±20mV) |
| Input Bias Current | | 400 nA | |
| Discrete/Digital (up to 1 | OV recommend | ded, 100k | pull-ups on 1 thru 8) |
| "Going High" Threshold | | 3.5 V (Maximum) | |
| "Going Low" Threshold | | 1.0 V (Minimum) | |
| Input Bias Current | | ± 10 μA | |
| Temperature | | | |
| Resolution | (TP-301) | 0.4 °C @ | 2 50 °C |
| | (TP-101) | 0.4 °C @ | 25 °C |
| Accuracy | (TP-301) | within ± 1 | .0 °C, 40 to 120 °C |
| | (TP-101) | within ± 1 | .0 °C, 10 to 90 °C |
| Full-Scale Range | | -10 to 15 | 0 °C (TP-301) |
| (better than ± 3 | °C accuracy) | -30 to 12 | 0 °C (TP-101) |
| Max. Operating Te | mperature | 250 °C | |
| Connector Type | | Standard | DB 25-pin |

130,000 samples

10 years

300µA

9600 bps

9-pin female

5.8" x 3.6" x 1.3"

8 oz. (226 q)

0.002 seconds to years

(all channels)

Fast as 500 Hz, Slow as 99 min.

7 to 12 volts (9V batt. / Adapt.)

4mA (only while sampling)

10mA (can be disabled) Up to 3 months, 9V Alkaline

(Up to 6 months, lithium)

-10 to 50 degrees Celsius

-20 to +70 degrees Celsius

8 data, no parity, 1 stop bit

(14.7cm x 9.14cm x 3.3cm)

110V-9V 200mA AC adapter

DATA STORAGE

- Data Storage Recording Duration Sampling Frequency
- Data Memory Battery Life

OPERATING

Power Supply Voltage Current Standby Recording LED Indication (sampling) Battery Life

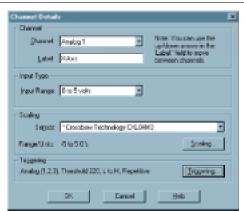
Power Adapter (included) Temperature Operating Storage

COMMUNICATION

RS-232 Interface Baud Rate Connection Data Format

DIMENSIONS

WEIGHT



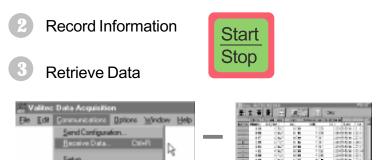
Scale and trigger setup includes predefined sensor profiles.

Operation

Configure (Setup)

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Simple form-based configuration



Built-in spreadsheet: Graph, Print, Export...

View Graph

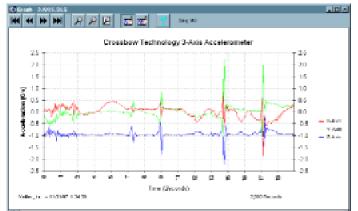
Setup

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For Analysis or Presentation: Copy/Paste, Print, Export...

Example Data Plot



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



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