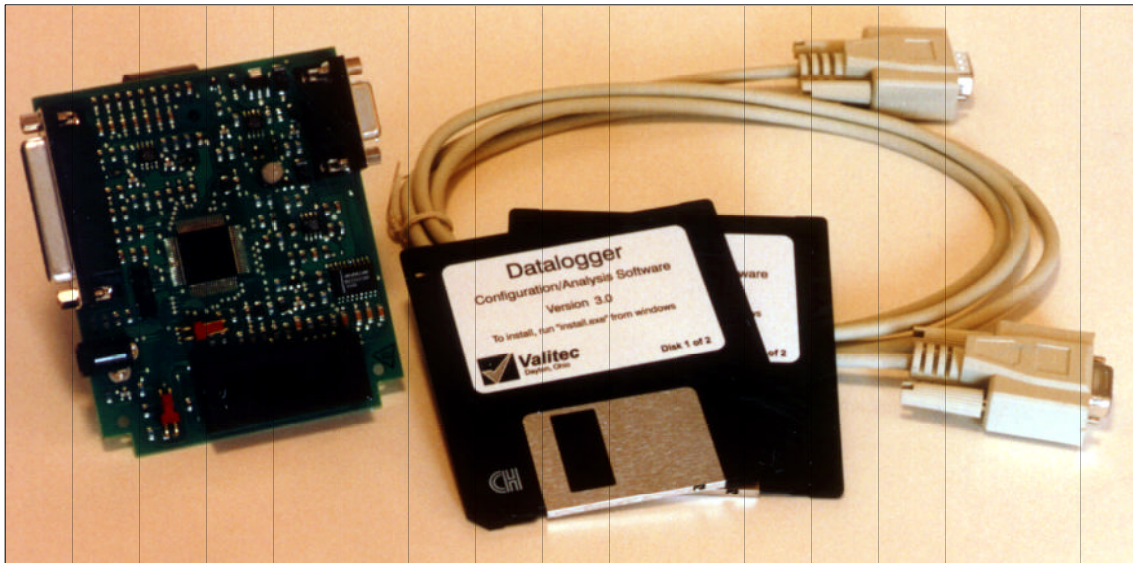


Valitec

Model AD128-OEM Stand-Alone DAS Board and Software



The Model AD128-OEM datalogging system is shipped complete with circuit board, software and PC communication cable. Connectors provided for mechanical or electronic 'Start/Stop' switch, external power and recording input channels.

Applications

- Field Data Collection
- Field Equipment Monitoring
- Process Fixture Monitoring
- Environmental Recording
- Stand-Alone Test Site Recording
- Machine Usage Monitoring
- Manual Recording Replacement

Features

AD128 Board

- No Programming Required
- Sample Up To 100/sec, All Channels
- 130,000 Sample Storage Capacity
- Time and Date Stamps
- 10-Year Data Memory Backup
- Very Low Power Consumption
- Inputs Protected to $> \pm 25$ Volts

Version 3.0 Software

- Point and Click Operation
- Scroll and Zoom Plots
- High Quality Print and Export
- Compatible With All Spreadsheet, Plotting and Analysis Programs
- Runs on Windows 3.1, 95 and NT

The AD128 Board and Software is an application-ready, stand-alone data acquisition system (DAS). Designed for stand-alone use, the board requires very little power and space for mounting and comes with ample data memory capacity.

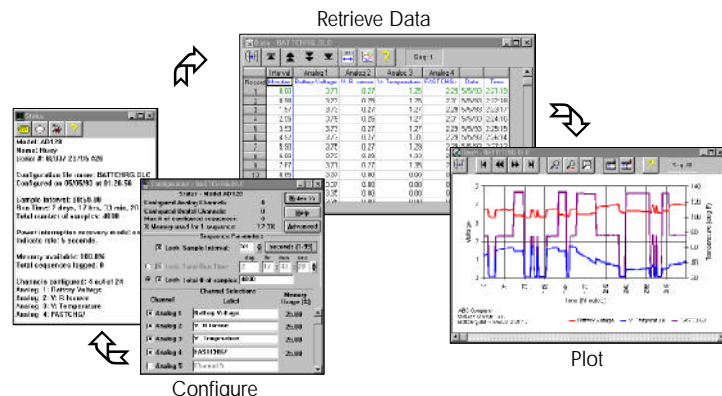
All data records include a time and date "stamp", and data is protected for 10-years by a lithium backup battery. A copyrighted software interlock feature ensures that data will never be lost.

Configuration/Analysis Software V3.0 allows flexible configuration of the data acquisition board without programming, and prepared configurations can be saved and loaded for repeated use. Point-and-click configuration makes use of this system easy for even the casual user, right out of the box.

Data is retrieved with a single mouse click and then displayed in a built-in spreadsheet. Another mouse click creates a formatted graph. Data and graphs can be printed or exported to other programs.

The Configuration/Analysis software can be customized* for any application, big or small. Valitec will also provide private-label software when requested.

** Please contact the factory for a quotation*



AD128 Board Specifications

| INPUTS | |
|---------------------------|-------------------------------|
| 8 analog, 16 digital | |
| Analog | |
| Input Voltage Range | 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 |
| Digital | |
| "High" Threshold | 3.5 V |
| "Low" Threshold | 1.0 V |
| Input Bias Current | ± 10 µA |
| Connector Type | Standard DB 25-pin |
| Sampling (Rate) Intervals | 0.01 seconds to 99 minutes |

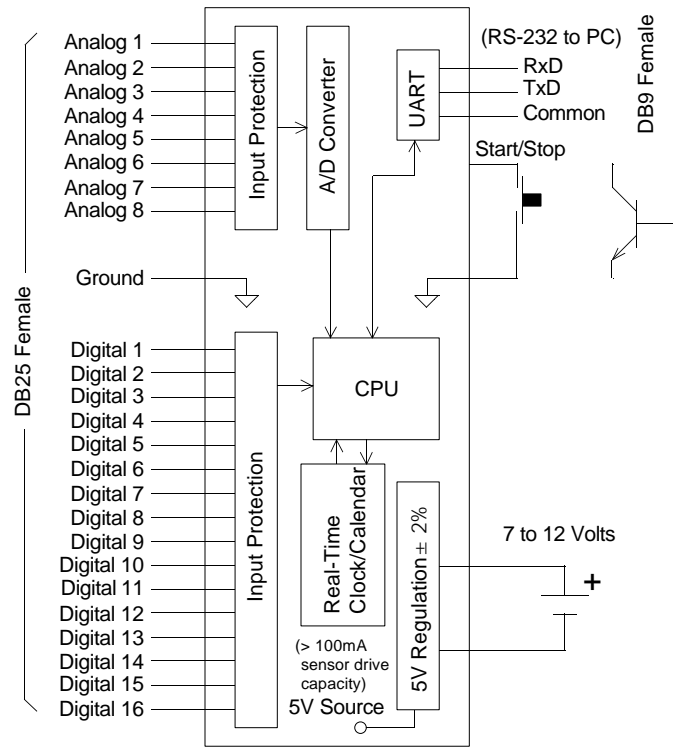
| DATA STORAGE | |
|--------------------------|-----------------------|
| Data Storage | 130,000 samples |
| Recording Duration | 0.01 seconds to years |
| Data Memory Battery Life | 10 years |

| OPERATING | |
|---------------------------|--|
| Power Supply | |
| Voltage | 7 to 12 volts (9V battery compatible) |
| Current | |
| Standby (between samples) | 300µA |
| Recording | 4mA (only while sampling) |
| LED Indication (sampling) | 10mA (can be disabled) |
| Battery Life (example) | Up to 3 months, 9V Alkaline (Up to 6 months, lithium) |
| Optional Power Source | 9V 200mA AC adapter |
| Temperature | |
| Operating | 0 to 50 degrees Celsius |
| Storage | -20 to +70 degrees Celsius |

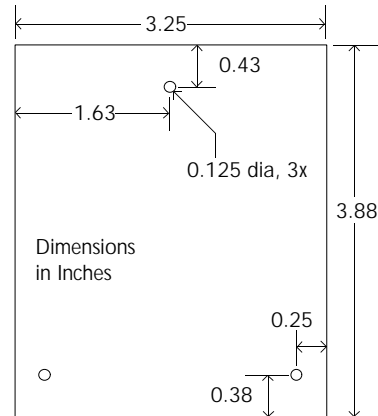
| COMMUNICATION | |
|------------------|-------------------------------|
| RS-232 Interface | |
| Baud Rate | 9600 bps |
| Connection | 9-pin female |
| Data Format | 8 data, no parity, 1 stop bit |

| DIMENSIONS | |
|--------------------|-------------------------|
| 3.3" x 3.9" x 0.6" | (8.3cm x 9.9cm x 1.5cm) |

Functional Diagram



Dimensions



Modes of Operation

- Record for preset time duration: *0.01 seconds to years*
- Record preset number of sample records: *up to 130,000*
- Start recording sequences with momentary pushbutton switch, relay or transistor pull-down.
- End preset recording sequences automatically or manually
- Run multiple recording sequences before downloading data: *up to 8000+ sequences*
- Power interruption recovery: *resume logging following power interruption, enable/disable*
- Low power mode: *LED indicator disabled, allows up to 3 months operation with 9V battery*
- Special run-time monitor mode: *data is recorded as configured, but the "Stop" time stamp is not recorded until the Start/Stop signal is toggled a second time.*

Example: a Start signal (machine turning on) can initiate a 600 sample recording sequence with a sampling interval of 1 second. If the run-time monitor mode is enabled, only the first 10 minutes of data will be recorded after the machine is turned on; when the machine is turned off (Start/Stop asserted a second time) the total machine run-time will be recorded, whether it is 15 minutes or 15 years.