

Applied Technologies, Inc.

Meteorological Equipment

DataPacker/DataLogger

FEATURES:

- Synchronizes digital and analog measurements
- Surge protection on all inputs/outputs
- Analog inputs differential or single ended
- Analog inputs have 100Hz Sallen-Key filter
- Internal data storage by SD card
- User configurable
- RT clock option
- Easy set-up and flexibility
- Unattended operation
- Low power
- Rugged construction
- Variety of data outputs



Applied Technologies, Inc.'s DataPacker/DataLogger

A common problem experienced in many field experiments is the ability to collect data from a wide range of different analog and digital sensors. Some of the requirements are to synchronize the data from each sensor, combine the data and collect the data into a single packet format so it can be transmitted easily.

Applied Technologies, Inc. has developed a DataPacker/DataLogger that accepts a combination of analog and digital inputs, combines and formats the data, and presents it all in a single serial stream. The digital output is presented to a computer, through a serial port, for easy storage and processing.

The DataPacker/DataLogger can be assembled in a variety of configurations to fit most applications. Because it can be built in a weatherproof enclosure, the unit can be located in close proximity to the analog sensors.

The data logging option, also allows the data to be stored internally, on an SD card, for transmission by Ethernet, WiFi, RF radio, or card exchange. Exchanging the card or using the optional transmissions methods does not interrupt data collection.

Specifications

Options

- Synchronization of Inputs – There is a synchronizing pulse available to any digital sensor or instrument that can be synchronized.
- Storage - The standard output is real-time data presented by cable, but an SD storage writer is available, with a desktop card reader and all required cables.
- Spare Parts - When necessary, spare parts such as connectors, cables, spare hardware, and carrying cases are available.
- Power Supply - An optional AC power supply is available, and other DC output voltages can be made available for sensor operation.
- Met Sensors - Meteorological sensors, such as pressure, temperature, and relative humidity can be added where necessary.
- Special Inputs - A low level/high-resolution circuit is available, and other special inputs can be added when ordering.
- WiFi Connection – A WiFi module can be added that puts the data output directly on your wireless network.
- Wireless Communications - A wireless spread spectrum radio link is available where cables are inappropriate.
- Backup Battery - A battery is available to cover power source interruptions.

Analog Inputs	32 max
Serial Digital Inputs	12 max
Analog Inputs	±10 volts Max. ±100 mv Min ±1µv optional
Digital Inputs	RS-232 standard RS-422 optional
A/D Converter	16 bit
Signal Gain	Programmable
Signal Offset	Programmable
Analog Accuracy	< 0.05% of FSR
Measurement Rate	200 Hz
Output Data Rate	<1 Hz to 200 Hz variable
Digital Output	Real-time serial RS-232 standard RS-422 optional
Alternate Outputs	Ethernet WiFi RF Radio SD Card exchange
Digital Data Rates (inputs and/or outputs)	9600 to 921,600 baud
Power Requirements	+12 to 24 VDC @ 25+ mA Depending on options

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