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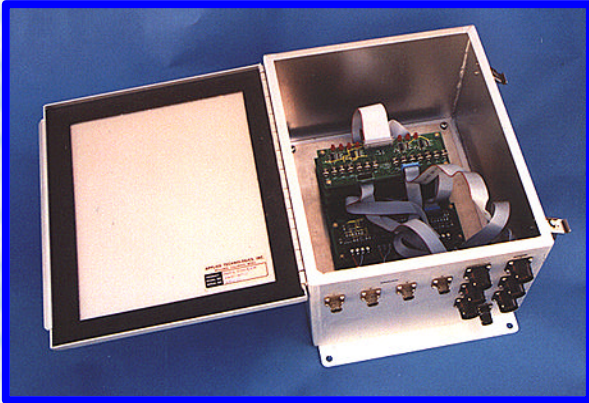
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Analog (and/or) Digital Data Packer



GENERAL

A common problem experienced in many field experiments is the ability to collect and synchronize data from both analog and digital sensors. The critical requirements are to synchronize the data from each sensor, collect and combine the data in a single format that can be transmitted easily.

Applied Technologies, Inc. has designed and developed a modular and configurable Data Packer that will accept a combination of analog and digital inputs, combine and format the data, and present it all on a single serial digital output. The digital output can be presented to most computers with a serial port for easy storage and processing.

The Data Packer 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, providing for short analog lines and less noise problems.

FEATURES

- Modular construction provides a variety of configurations.
- Synchronizes digital and analog measurements
- Surge protection on all inputs/outputs
- Analog inputs differential or single ended
- Analog inputs have 100Hz Sallen-Key filter
- Auto-calibration at power-up
- User programmable
- Microprocessor-based
- Unattended operation
- Low power
- Rugged construction

SPECIFICATIONS

Analog Inputs Serial Digital Inputs	4 each (16 max.) 1 each (7 max.)
Analog Inputs	±10 volts Max. ±100 mv Min ±1mv optional
Digital Inputs	RS-232 standard RS-422/485 optional
A/D Converter Signal Gain Signal Offset	12 bit Programmable Programmable
Analog Accuracy	< 0.05% of FSR
Measurement Rate Output Data Rate	200 Hz up to 20 Hz
Digital Output	RS-232 standard RS-422/485 optional
Digital Data Rates (inputs or outputs)	1200 to 115,200 baud
Power Requirements	+12 VDC @ 100 mA