Applied Technologies, Inc.

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Meterological Equipment

FluxPak System

FEATURES:

- Complete Flux package
- Self-contained, pre-tested, and ready to go
- Ability to control, poll, collect, and store data from a wide variety of sensors and measurements systems, both analog and digital
- Provides supervisory control over the complete system
- Can be configured and expanded at any time

Applied Technologies, Inc.'s FluxPak System

The measurement of fluxes such as sensible heat, momentum, and latent heat, require a fixed set of instruments and software, operating the Eddy Covariance Method.

Applied Technologies, Inc. has put together a complete package of instruments and software that can be configured into a variety of systems to perform this task.

The basic package of this system can be fabricated around an industrial PC, a laptop/notebook PC, or can even be assembled into a weatherproof enclosure for harsh environments.

Basic System

- ATI Sonic Anemometer
- ATI DataPacker/DataLogger
- ATI FMS software package

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OPTIONS:

- Choice of H^2O/CO^2 analyzers
- Most any other fast response analyzers
- Relaxed Eddy Accumulator system
- Misc. meteorological sensors

Description

The basic system includes two instruments, the FluxPak Controller and the ATI Sonic Anemometer.

The FluxPak Controller includes:

- a low power, +12Vdc input powered, computer
- in a weatherproof enclosure
- with a Linux OS, and the FMS processing software
- with an Ethernet connection so a laptop can be used for setup, monitoring, and downloading data
- a 10m interconnect cable between the sonic and controller
- a 10m DC input cable

The SATI Sonic Anemometer includes:

- see the attached brochure for details and specifications
- any of the 5 types can be included in this system, they are the same price
- the difference between them has to do with the science being measured
- see the descriptions under the pictures

This basic flux system will process and provide data on the following list of items.

Sensible Heat Flux
Momentum Flux
Vector Averaged Wind Speed
Vector Averaged Wind Direction
Standard Deviation
Friction Velocity

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