

# Applied Technologies, Inc.

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## CATI/2 - Solid State Wind Sensor



### FEATURES

- No moving parts
- Digital and Analog outputs
- Time proven design
- Sensor emulation
- Replaces many other anemometers
  - 16 point wind tunnel calibration
- Low power
- Solid-state digital operation

### GENERAL

The Model CATI/2 Solid State Wind Sensor is the latest member of Applied Technologies, Inc.'s Sonic Anemometer product line. This sensor offers high quality performance in an inexpensive package.

The CATI/2 Wind Sensor is a continuation of the Sonic Wind Sensors developed 25 years ago, and contains the same wind distortion algorithm and factoring that have been proven and accepted around the world.

Data emulation allows for the direct connection to existing data loggers and systems without costly changes to associated electronics. Data output is factory set to user requirements and includes the emulation of many common types of wind sensors.

Optional heating extends the lower operating temperature of the sensor and permits continuous operation during heavy ice and snow.

The instrument is a standard of measurement, each sensor is tested in our NIST traceable, closed loop wind tunnel and the user is provided with a certification of calibration at 16 test points.

## **SPECIFICATIONS**

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|---|---|
| <b>Range</b>                              | <b>0-50 m/s for wind speed<br/>0-359° for wind direction</b>      |
| <b>Resolution</b>                         | <b>0.1 m/s for wind speed<br/>1.0° for wind direction</b>         |
| <b>Accuracy</b>                           | <b>±2% or 0.1 m/s for wind speed<br/>±3.0° for wind direction</b> |
| <b>Operating Temperature</b>              | <b>-40°C to +60°C</b>   |
| <b>Digital Output</b>                     | <b>RS-232 standard<br/>RS-485 optional<br/>SDI-12 optional</b>    |
| <b>Analog Output</b>                      | <b>0 – 1, 2.5, 5 VDC (available options)</b>                      |
| <b>Sampling Rate<br/>Data Output Rate</b> | <b>3 per second<br/>1 per second</b>                              |
| <b>Rain/Snow</b>                          | <b>Can be heated</b>  |
| <b>Operating Frequency</b>                | <b>200 kHz</b>  |
| <b>Power</b>                              | <b>9 – 18 VDC @ 10 ma</b>   |
| <b>Dimensions</b>                         | <b>430 mm high x 239 mm wide</b>                                  |
| <b>Weight</b>                             | <b>680 grams</b>  |