

The TriSonica™ Mini is a compact weather station that measures a suite of weather conditions with great accuracy. Using ultrasonic technology, the TriSonica™ Mini provides 3D wind direction, speed, air temperature, humidity, pressure, and compass data. The instrument uses four measurement path sensors for calculated redundancy and an open flow design providing the least possible distortion of the wind field.

FEATURES

- Compact and lightweight
- No maintenance, rugged design
- Real-time 3-dimensional air flow data
- User customizable data outputs
- Power optimization 9-36 VDC
- Convenience of portable or fixed installation
- Compatible with Geotech's SitePro remote telemetry system
- TriSonia App Included

APPLICATIONS

- Add atmospheric monitoring to environmental system installations
- Mount to unmanned aircraft systems for remote weather reporting
- Ecosystem research
- Meteorologist weather pattern studies
- Add-On Options:
 - SDI-12 Converter
 - USB Converter
 - Cable Length



TriSonica™ Mini Weather Sensor with Flat Base Mount

Mounts to: Flat surfaces secured with four mounting holes

Cable: Hard wired, twisted 3 wire with ground



TriSonica™ Mini Weather Sensor with Pipe-Mount Base

Mounts to: Standard 1/2" DIN15 Schedule 10 Pipe

Cable: Male Round Plug (IP67), jacketed 28awg 8 conductor to flying lead

SPECIFICATIONS

Size	9.1cm x 9.1cm x 5.2cm
Weight	50 grams
Power	9-36 VDC @ 30mA
Digital Output	RS-232, RS-422
Data Output Rate	1Hz, 2Hz, 5Hz, 10Hz
Operating Frequency	60 kHz
Wind Speed	Range: 0-50 m/s Resolution: 0.1 m/s Accuracy (0-10 m/s): ±0.1 m/s Accuracy (11-30 m/s): ±1% Accuracy (31-50 m/s): ±2%
Wind Direction	Range (x/y): 0-360° Range (z): ±30° Resolution: 1.0° Accuracy: ±1.0°
Software PC Interface	TriSonica User App Included

Temperature	Range: -40° C to 80° C Resolution: 0.1° C Accuracy: ±2.0° C Derived from Speed of Sound and Humidity
Humidity Sensor	Range: 0-100% RH Resolution: 0.1% Accuracy: ±3%
Pressure Sensor	Range: 50-115 kPa Resolution: 0.1 kPa Accuracy: ±1.0 kPa
3d Accelerometer	Range (x, y, z): ±2g Tilt (Pitch, Roll): ±90°
Magnetometer	Range (x, y, z): ±16 Gauss Heading Accuracy: ±5.0°
Dew Point Calculation	Derived from Temperature and Humidity Values
Air Density Calculation	Derived from Speed of Sound and Pressure

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