

# Compact Wind & Weather Sensor

## Anemoment TriSonica™ Mini

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 remote telemetry - radio or cellular

### APPLICATIONS

- Add atmospheric monitoring to environmental system installations
- Mount to unmanned aircraft systems for remote weather reporting
- Ecosystem research
- Meteorologist weather pattern studies



The TriSonica™ Mini is small enough to fit in the palm of your hand.

TriSonica™ Mini Wind & Weather Sensor with Pipe-Mount Base.

### SPECIFICATIONS

<b>Size</b>	9.1cm x 9.1cm x 5.2cm
<b>Weight</b>	50 grams
<b>Power</b>	9-36 VDC @ 30mA
<b>Digital Output</b>	RS-232, RS-422
<b>Data Output Rate</b>	1Hz, 2Hz, 5Hz, 10Hz
<b>Operating Frequency</b>	60 kHz
<b>Wind Speed</b>	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%
<b>Wind Direction</b>	Range (x/y): 0-360° Range (z): ±30° Resolution: 1.0° Accuracy: ±1.0°

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

**CALL GEOTECH TODAY (800) 833-7958**

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