TriSonica™ Mini Weather Station

Anemoment™

For those that require a compact, lightweight, low velocity anemometer with pressure, humidity, level and compass sensor, for a small location or for use on a small drone, Anemoment offers the TriSonica Mini Weather Station.

It has a measurement path of just 35 mm and a weight of less than 50 grams. Even with its small size it provides wind speed, direction, temperature, humidity, pressure, tilt, and compass data.

The TriSonica Mini Weather Station Solid-State Wind System can also provide measurements of all three dimensions of air flow. The open path provides the least possible distortion of the wind field.

Four measurement paths provide a redundant measurement. The path with the most distortion is removed from the calculations to provide accurate wind measurements.

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.

SIZE	WEIGHT	POWER
9.1cm x 9.1cm x 5.2cm	50 grams	9-36 VDC @ 30mA

DIGITAL OUTPUT	DATA OUTPUT RATE	OPERATING FREQUENCY
RS-232	1Hz, 2Hz, 5Hz, 10 Hz	60 kHz

WIND SPEED	WIND DIRECTION	TEMPERATURE
Range: 0-30 m/s Resolution: 0.1 m/s Accuracy (0-15 m/s): ±0.1 m/s Accuracy (15-30 m/s): ±2%	Range (x/y): 0-360° Range (z): ±30° Resolution: 1.0° Accuracy: ±1.0°	Range: -25°C to +80°C Resolution: 0.1°C Accuracy: ±2°C

HUMIDITY SENSOR	PRESSURE SENSOR	3D ACCELEROMETER
Range: 0-100% RH Resolution: 0.1% Accuracy: ±3%	Range: 50-115 kPa Resolution: 0.1 kPa Accuracy: ±1.0 kPa	Range (x, y, z): ±2g Tilt (Pitch, Roll): ±90°

MAGNETOMETER	DEW POINT CALCULATION	AIR DENSITY CALCULATION
Range (x, y, z): ±16 Gauss Heading Accuracy: ±5.0°	Derived from Temperature and Humidity values.	Derived from Speed of Sound and Pressure.

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