

LI-560 TriSonica® Sphere Ultrasonic Anemometer

The LI-560 TriSonica® Sphere Ultrasonic Anemometer offers accurate vertical measurements at fast sampling rates, making it ideal for mobile and stationary atmospheric research. Its all-aluminum construction enhances durability while maintaining its size, weight, and power (SWaP) advantage. This makes the LI-560 ideal for drone deployment.

Power Supply Voltage: 5 - 32 VDC

Power: 600 mW (500mW typical)

Operating Environment:

Altitude: Up to 5000 meters

Temperature: -20 to 72 °C

Relative Humidity: 0 to 100% (non-condensing)

The 550USB is not rated for outdoor use.

Transient Overvoltage: Category I

Temporary Overvoltage: 40 V

Pollution Tolerance: Level 3 (enclosure must be intact)

Sampling Frequency: 100 Hz maximum

Ultrasonic Frequency: 60 kHz \pm 5 kHz

Weight: 225 grams

Size: 10.2 x 10.2 x 24.9 cm

Digital Output: RS-232, RS-422, UART-3V

Output Rate: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz, 25 Hz, 50 Hz, 100 Hz

Wind Speed Measurements:

Range: 0-50 m/s

Resolution: 0.01 m/s

Accuracy: (0-10 m/s): \pm 1%*

Accuracy: (11-30 m/s): \pm 1%

Accuracy: (31-50 m/s): \pm 2%

**Averaged over 10 seconds*

Wind Direction Measurements:

Range (u/v): 0-359°

Range (w): \pm 60°

Resolution: 1.0°

Accuracy: \pm 1.0°

Temperature Measurements:

Range: -20 °C to 72 °C

Resolution: 0.01 °C

Accuracy: \pm 2.0 °C

Accelerometer:

Range (u, v, w): \pm 2 g

Tilt (pitch, roll): \pm 90°

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