**breeze**

*plus direction*

**Combined Wireless Speed & Direction**

No Batteries – No Wires

Etesian Technologies *breeze* is the world’s first self-powered and wireless anemometer. All the expense and hassle of wiring is eliminated. Damage to your logger or controls from *lightning* is eliminated. The internal generator provides all necessary power. Never a battery to replace.

* Data transmissions start at 2 m/s (5 MPH)
* Up to 1500 feet line of sight transmission
* Integrated direction sensor – both signals wireless
* Available in 916.5 and 868.35 MHz

TECHNICAL SPECIFICATIONS:

OVERALL SENSOR

Weight: 14 oz.
Mounting: 13 mm (0.5 in) diameter mast with cotter pin and mast set screw.
Overall height – 19.7 cm (7.75 in)
Main housing diameter – 6.1 cm (2.39 in)
Power Requirements: None, self powered

SPEED

Conical cups measure 63.5 mm (2.5 inches) in diameter
Rotor diameter is 203 mm (8.0 inches)
Fully hardened beryllium-copper shaft running in self-lubricating modified fluoropolymer bearings
Rated bearing PV (pressure-velocity) factor is 20,000 – At 15 mph PV is approx. 500. – At 100 mph PV is approx. 2,000.
Distance constant = 10 feet (3.0 meters)
Accuracy: within 0.1 m/s (0.2 mph) for the range 5 m/s to 25 m/s (11 mph to 55 mph)

DIRECTION

Sensitivity: approx. 1 m/s (2.2 mph)
Potentiometer: stainless steel shaft in two shielded precision grade, stainless steel ball bearings, conductive plastic potentiometer element mounted in a machined aluminum housing.
Dimensions: overall length - 21 cm (8.3 in)
Vane Size - 6 cm H x 10 cm L (2.3 in x 3.8 in.)
Range: 352° electrical (8 degrees open)
Signal: Analog DC voltage from conductive plastic potentiometer resistance 10K; linearity 1.0%, life expectancy of 50 million revolutions

ORDERING

916.5 MHz Part number 101-D-916
868.35 MHz Part number 101-D-868

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