

Model 5712

Wind Speed and Direction Sensor

- High Performance
- Low Aspect Ratio
- Lightweight, Compact Size
- Corrosion Resistant Construction



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS, INC.

FAX: (530) 273-2089



BENEFITS:

- Combine with Solar Radiation, Temperature, Relative Humidity and Precipitation for a complete Evapotranspiration (ET) Station.
- Combine with ALERT/ALERT2 System for High Wind monitoring.
- Use Wind Speed, Direction and Gust Data to enhance your current emergency management system.
- Protect your investment by using an UV stabilized plastic wind sensor with anodized aluminum fittings.

DESCRIPTION:

The Model 5712-00 Wind Speed and Direction Sensor is a rugged, accurate wind sensor. The simple, lightweight corrosion-resistant construction makes it well suited for a wide range of wind measurement applications.

The Model 5712-00 uses a four blade helicoid propeller. The propeller rotation produces an AC voltage signal with a frequency directly proportional to wind speed. Slip rings and brushes are not used, resulting in improved reliability and lower cost.

The wind direction sensor is a rugged, lightweight vane with a low aspect ratio to assure good fidelity in fluctuating wind conditions. The vane angle is sensed by a precision potentiometer housed in a sealed chamber. With a known excitation voltage applied to the potentiometer, the output signal is directly proportional to azimuth angle. An orientation ring is supplied for preserving wind direction reference when the 5712-00 is removed for maintenance.

02-5712-00(C)

Environmental Monitoring Solutions

WEB SITE: www.highsierraelectronics.com E-MAIL: sales@highsierraelectronics.com

Model 5712 Wind Speed and Direction

SPECIFICATIONS:

Wind Speed

Range	0 to 224 mph (0 to 100 m/s)
Accuracy	± 0.6 mph (± 0.3 m/s) or 1% of reading
Threshold	2.2 mph (1.0 m/s)
Output	Magnetically Induced AC Voltage, 3 pulses per revolution 1800 rpm (90 Hz) = 19.7 mph (8.8 m/s)

Wind Direction

Range	0 to 360° mechanical, (355° electrical 5° max dead band)
Accuracy	$\pm 3^\circ$
Threshold	2.4 mph (1.1 m/s)
Output	DC Voltage from potentiometer - resistance 10 K Ω , linearity 0.25%
Lifespan	50 million revolutions
Power Requirements	8 to 24 VDC (5 mA @ 12 VDC)
Cable	25 ft (7.62 m) 5-conductor 24 AWG with MS Connector
Mounting	O.D. 1.34 in (34 mm) dia. (standard 1 inch pipe)
Operating Temperature	-58° to 122° F (-50° to 50° C)
Dimensions	14.6 x 21.7 x 7 in (37 x 55 x 18 cm) (H x L x Dia)
Weight	2.2 lbs (1 kg)
Shipping Weight	5 lbs (2.3 kg)

ORDERING GUIDE:

Model 5712-00	Wind Speed and Direction Sensor; Includes Sensor, 25 ft (7.62 m) Cable with MS Connector. <i>Mounting Bracket sold separately</i>
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OPTIONS/SPARE PARTS:

Model 5712-01	Mounting Bracket: Includes Mounting Arm and Bracket for Model 5712-00 Wind Speed and Direction Sensor.
Model 5712-03	Propeller; Replacement 5712-00 Wind S/D Monitor.
Model 5102-00	Signal Cable; 5-conductor 24 AWG

See www.highsierraelectronics.com for more specification and ordering information.

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