

Model 5710

Wind Direction Sensor

- Excellent Dynamic Response
- Heavy-Duty Construction
- Low Threshold
- Long Operational Life



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DESCRIPTION:

The Model 5710-00 Wind Direction Sensor is a professional quality sensor which makes it ideal for use in many applications. This sensor offers a level of quality and reliability often found only in a very high priced unit. The thermoplastic and stainless steel components resist corrosion, and contribute to a high strength-to-weight ratio.

The Model 5710-00 employs a minimum number of parts while maximizing functional performance. The vane is directly connected to a precision conductive plastic potentiometer located in the main body. An analog voltage output directly proportional

to the wind direction is produced when a constant DC excitation voltage is applied to the potentiometer. The potentiometer has superior linearity and low rotational friction. Supported by a stainless steel shaft, the vane rotates in shielded, instrument-grade, stainless steel bearings.

SPECIFICATIONS:

Measurement Range	360° mechanical, (352° electrical, 8° max dead band)
Accuracy	Potentiometer linearity within 1%
Threshold	2.2 mph (1 m/s)
Signal Output	Analog DC voltage from 10k Ω potentiometer
Sensor Type	Continuous rotation potentiometer wind direction vane
Lifespan	50 million revolutions (2 to 6 years normal operation)
Operating Voltage	1 to 15 VDC
Cable	25 ft (7.6 m) 24 AWG, 5-conductor with MS connector
Mounting	Onto a 0.5 in (13 mm) dia. mast with cotter pin and mast set screw
Operating Temperature	-67° to 140° F (-55° to 60° C)
Operating Humidity	0 to 100% RH
Dimensions	8.3 x 4.3 in (21 x 11 cm) (L x H)
Weight	0.25 lb (113 g)
Shipping Weight	1 lb (0.5 kg)

ORDERING GUIDE:

Model 5710-00	Wind Direction Sensor; Includes Sensor, 25 ft (7.6 m) signal cable with MS Connector. <i>Model 5711-01 Cross-arm Assembly sold separately</i>
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OPTIONS/SPARE PARTS:

Model 5711-01	Cross Arm Assembly: Includes Mounting Arm and Hardware.
Model 5102-00	Signal Cable; 5-conductor 24 AWG (Price per foot)

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

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Environmental Monitoring Solutions

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