



Met One
Instruments

011 E-Class One Wind Sensor

High Performance Wind Energy Wind Sensor

Applications for horizontal wind speed measurement, such as power performance assessment in the wind energy industry, require a combination of high accuracy and linearity over the wind speed range of interest. The 011 E-Class One Wind Sensor has been specially designed to meet this challenge through modern engineering, materials choice, and field-proven performance.

FEATURES

- Designed to meet anemometry performance criteria for “Class 1” in accordance with IEC 61400-12-1
- Based upon legacy 010C platform characterized by many years of field-proven performance at thousands of installations worldwide
- High accuracy and linearity over the wind speed range of interest that includes wind turbine generator operation and wind gust measurement
- Optimized dynamic response provides accurate horizontal wind speed measurement in flat and complex terrain environments
- Patent pending innovative asymmetrical aerodynamic cup set design for superb cosine response
- High strength polymer cup design reduces stress points for long-lasting performance
- Rugged anodized aluminum body and stainless steel bearing assembly
- Contamination resistant bearing assembly provides reliability of operation
- Non-disposable - lifetime component serviceability
- Low power consumption
- Pulsed frequency output signal (proportional to wind speed) is compatible with industry standard data loggers
- Available with consensus, individual expanded (ISO 17713 1, ASTM D5096 02), or MEASNET calibration
- Designed and manufactured in the United States of America



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SPECIFICATIONS

PERFORMANCE CHARACTERISTICS

Operating Range*	0-60+ m/s
Starting Threshold*	0.27 m/s
Accuracy*	±0.1 m/s or 1% FS
Resolution	0.04 meter wind run
Temperature Range	-50°C to +85°C
Distance Constant*	3.0 m

ELECTRICAL CHARACTERISTICS

Power Requirements	9-27 VDC, 3 mA @ 12 VDC
Output Signal	Pulse (frequency) output (amplitude is power supply)
Output Impedance	100 ohms

PHYSICAL CHARACTERISTICS

Weight	0.68 kg (1.5 lbs)
Finish	Anodized aluminum body; high strength polymer cups
Mounting	PN 191 cross-arm or PN 10392 vertical pipe mount
Cabling	PN 10432-XX (specify length)

**Specifications subject to revision.*

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