



Wind Speed Sensor



**Precise,
accurate wind
measurements
in all
environments**

Applications

- Building Management Systems
- Urban meteorology
- Low-Cost Hydro-Met stations
- Chemical plants and factories
- University projects

Features and Benefits

- Proven design
- Low Inertia Cup Assembly for fast start-up
- Compatible with most modern data capture units
- Robust and reliable



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The wind speed sensor consists of a low-inertia ABS cup assembly for fast response mounted on a dual ballrace-supported stainless steel shaft. The use of a magnet operating a long-life reed switch produces one bounce-free pulse per revolution of the rotor.

The wind speed sensor is manufactured in clear anodised (HT30) aluminium alloy. Therefore, it is a cost effective and robust option for use in harsh climates.

Due to its adaptability, there are many configurations and applications this instrument can be used for. Therefore, please contact EML directly to find a solution for your requirements.

Technical Specifications	
Speed Sensor	
Calibration	1 contact closure / 1.493m
Reed detector	Bench tested to a minimum speed of 90m/s.
Start-up ¹	0.5 m/s typically.
Accuracy	2%
Linearity	2%
Output	Contact closure reed switch
Contact Rating	50 Watts. (d.c. resistive)

Ordering Information	
Order Code	Product
W-975-010	WSU1 Wind Speed Sensor
W-975-011	WSU3 Wind Speed Sensor + Mast
W-975-012	WSU4 Wind Speed Sensor + Bracket

Ordering Information - Accessories	
Order Code	Product
W-975-500	LB380 - 4-20mA or 0-10V Wind Converter

(1) Start-up is defined as the speed required to commence the movement of the cups from a standstill in zero wind. However, in practice an anemometer rarely stops and very low wind-speeds are able to be detected due to the low-inertia cup assembly.

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