

## Wind Sensor SENSOR-WINDSPEED-PULSE



### Overview

The SENSOR-WINDSPEED-PULSE is used to measure wind speeds. It can be connected directly to an Embedia Control Point to provide the control network, including external BMS systems, with wind readings. For projects including exterior shading products, these sensors are used to protect blinds from damage under strong wind conditions.

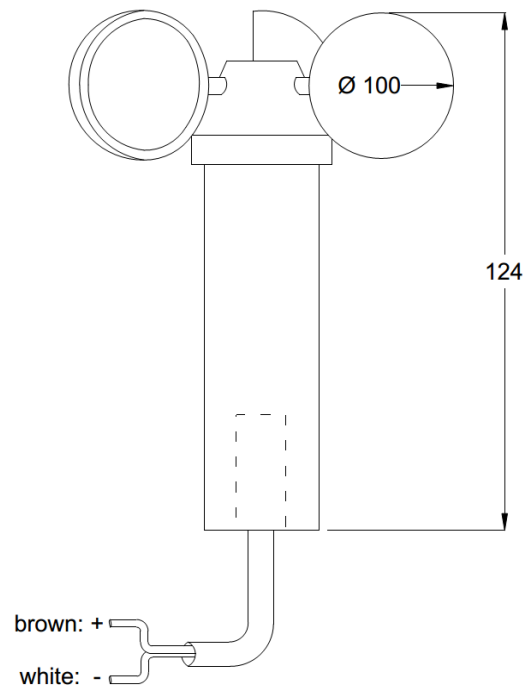
Programmable wind response profiles on ControlPoint or other suitable Embedia Solarai motor controllers and sensor input devices allow fine tuning of system protection features based on factory calibrated sensor readings as part of the commissioning process.

### Operation

This wind speed sensor, or anemometer, is equipped with a reed switch. As the blades rotate, the SENSOR-WINDSPEED-PULSE generates pulses whose frequency is proportional to the effective wind speed. Correct calibration values is required for effective operation. The wind sensor is weather resistant.

### Installation Instructions

The wind sensor must be installed at the location most exposed to the wind, free of obstacles, and always in a vertical position. Typical installation location would be on a mast on the highest point of the roof. The wind sensor can be plugged into the supplied mounting tube which may be fixed in position using the included mounting bracket.

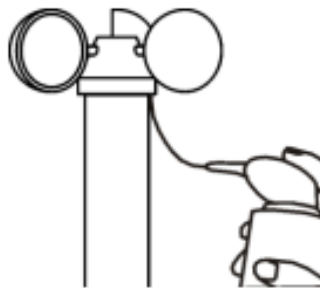


Specifications	Description
Model	SENSOR-WINDSPEED-PULSE
Range	EB, and EB LIGHT
Precision	-40%...+10% (5 - 15 km/h) -15%...+15% (15 - 120 km/h)
Operating Temperature	-5...70°C
Connection Cable	Grey, 5m; $\phi$ 4.5mm, 2 x 0.34mm <sup>2</sup>
Output	1 pulse/sec. per km/h (R=560 $\Omega$ )
Color	Matte black
Weight	120g
Included Accessories	Mounting tube $\phi$ 12/10 x 200 Mounting bracket (To order without mounting bracket, use part # SENSOR-WINDSPEED-PULSE-NM)

## Maintenance

Maintenance and operational tests should be performed annually to ensure the sensor is functioning optimally and that accurate readings are obtained. Annual service should include the following:

- Clean the surface of the wind sensor with a soft cloth and solvent-free cleaner
- Functional testing:
  1. Rotate the blades slowly with a finger: there should be no resistance or shock.
  2. Blow on the blades or rotate them quickly with a finger: observe whether there is vibration on the tube or if a rubbing noise appears. If any of these conditions are observed, it is necessary to lubricate the bearings with silicone spray (as shown below).
- If problem persists after lubrication then replace the sensor.



## Ordering Information

Sensor Part # - SENSOR-WINDSPEED-PULSE

Sensor Without Mounting Bracket Part # - SENSOR-WINDSPEED-PULSE-NM

