

# W I N D S E N S O R S

## FEATURES

- **Rugged construction**
- **Variety of output signals**
- **High specification**
- **Temperature range from -40°C to +70°C**
- **Long operational life**

There are four types of anemometer available giving either a frequency, voltage or current output. Each sensor is similar in design and application to its sister Wind Direction Sensor.

### DWR-205

**Standard Windspeed Sensor.** A rotating magnet causes a reed switch to close twice per revolution, which produces a pulse output. This is normally input to a datalogger to measure wind run or related to time to give windspeed. An integration frame of 5 seconds gives a reed switch resolution of 0.1 m/s.

### DWR-205I

**Windspeed Sensor with 4-20 mA output.** This version of the DWR-205 is designed for use with long cable-runs and is usually supplied with the DWD-105I Wind Direction Sensor. It has a 4-20 mA transmitter.

### DWR-205G

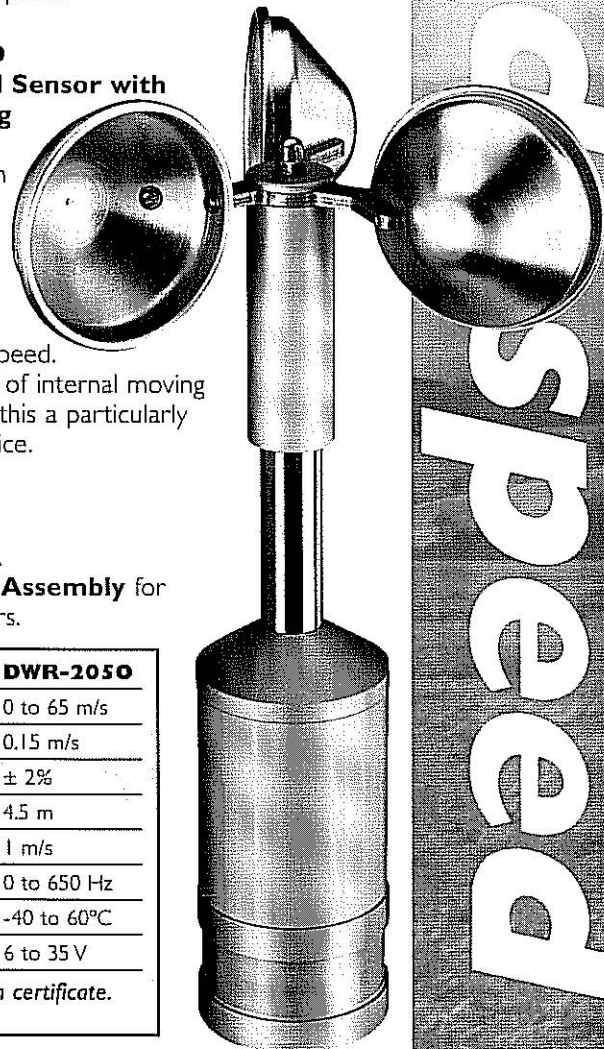
**Windspeed Sensor with voltage output.** Where a continuous indication of windspeed is required, the DWR-205G is recommended. An integral tachogenerator is directly coupled to the shaft. The voltage output is proportional to windspeed. A potentiometer is added so that the output can be pre-set to a known voltage at a given windspeed.

### DWR-205O

**Windspeed Sensor with low starting speed.** An optical switch within the sensor body generates a frequency proportional to the windspeed. The absence of internal moving parts makes this a particularly sensitive device.

### Spares

**DWR-205R**  
**Spare Cup Assembly** for Anemometers.



# Windspeed

Parameter	DWR-205	DWR-205I	DWR-205G	DWR-205O
Range	0 to 65 m/s	0 to 50 m/s	0 to 65 m/s	0 to 65 m/s
Starting speed	0.25 m/s	0.4 m/s	0.4 m/s	0.15 m/s
Accuracy	± 2%	± 2%	± 2%	± 2%
Distance constant	6.5 m	6.5 m	6.5 m	4.5 m
Resolution	0.1 m/s	1 m/s	1 m/s	1 m/s
Output	0 to 130 Hz	4 to 20 mA	0 to 1.3 V	0 to 650 Hz
Dry temperature range	-40 to 70°C	-20 to 60°C	-40 to 60°C	-40 to 60°C
Supply voltage	none	14 to 35 V	none	6 to 35 V

All Windspeed Sensors are supplied with a 3 m cable and a calibration certificate. Longer cables are available on request.

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