

# Wind Speed & Direction Sensor

## AV-WSD-20

### Description

The AV-WSD-20 combined Wind Speed and Direction sensor is manufactured from anodized aluminium alloy, UPVC and stainless steel with moulded polypropylene cups. The units are lightweight yet very robust.

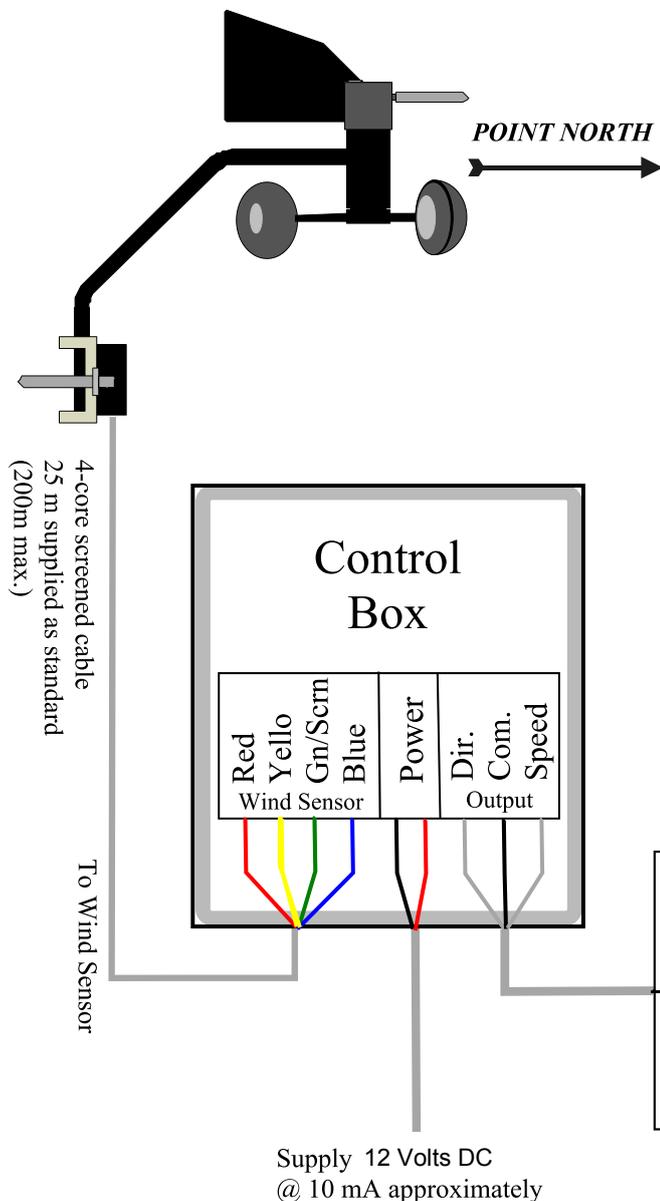
The sensors are designed to be mounted to a mast of between 30-50 mm diameter by means of a V-shaped clamp and bracket. This allows simple orientation to North using the compass provided; the only setting up required.

Wind Direction is sensed by a precision conductive potentiometer which combines exceptionally long life with high sensitivity. Wind speed is derived from a Hall Effect solid state magnetic switch activated by magnets in the cup rotor running in precision stainless steel ball race and 'Oilite' bearings giving very high sensitivity and very long life.

### Features

- Converts wind speed to a 4-20mA output
- Converts wind direction to a 4-20mA output
- Lightweight and robust

### Connections



### Technical Specification

Electrical conn:	4-core cable 25m supplied as standard
Weight:	250g
Wind speed output:	4-20mA range 0...50m/s
Accuracy:	±5%
Direction output:	4-20mA range 10...360°
Mechanical travel:	360° endless travel
Resistance tolerance:	±5%

### Order Code

AV-WSD-20 Wind speed and direction sensor 4-20mA

Wind Speed output 20mA @50m/s

Common

Wind Direction output 4-20mA  
 Example outputs:  
 4mA output = 10 degs.  
 12mA output = 180 degs.  
 20mA output = 360 degs.