WIND SENSOR with 4-20mA output



The combined Wind Speed and Direction Sensors are manufactured from anodized aluminium alloy, PVC and stainless steel with moulded polypropylene cups. The units are lightweight (less than 250 grams) 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 (Pro) or sintered bronze bearing (Basic) giving very high sensitivity and very long life.

WIND DIRECTION

Specification

Typical accuracy 5% or 1.5 m/s Accuracy +/- 5 degs. typical (+/- 10 degs. worst case) Resolution better than 0.5 m/s Resolution Generally < 1 deg. (+/- 10 degs. at North) Threshold <0.5 m/s Threshold <0.5 m/s To Wind Sensor 4-core cable 25 m supplied as standard (200m max.) Control Box Acllo Red Black Red Dir. Com. Speec Slide off cover to reveal terminals Wind speed output: 20mA = 50 m/sCommon Wind Direction output 4-20mA Supply 12 Volt D.C. Example Outputs:-@ 10 mA approximately 4mA output = 10 degs. 12 mA output = 180 degs. (South) 20 mA output = 360 degs. (North)

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WIND SPEED

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