

Model A75-302 Wind Vane

Document 1877B

Applications

- Meteorological studies
- Wind direction sensor for wind data loggers
- Yaw control on wind turbines
- Environmental monitoring

Features

- Simple mechanical construction
- Long life, professional quality potentiometer
- No slip rings or brushes result in high reliability and low cost
- Corrosion resistant materials
- Multiple mechanical and contact seals
- No set screws to vibrate loose
- Very stable and smooth response to wind changes
- Fully balanced sensor vane

Specifications

Range: Direction - 360 degrees continuous rotation

Threshold: Approx. 1 m/s (2.2 M.P.H.)

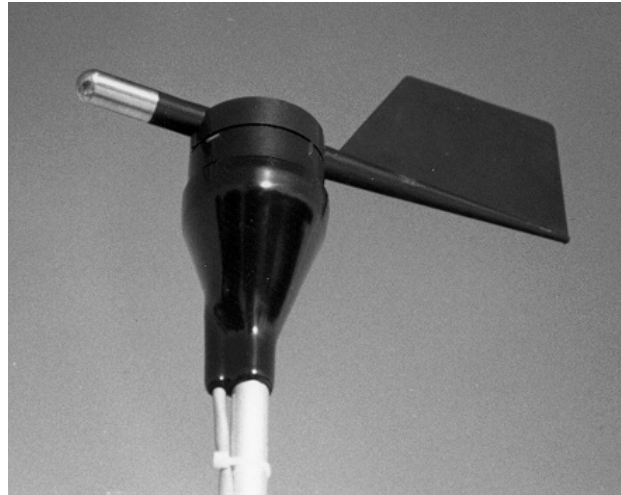
Gust Survival Speed: 134 M.P.H. (60 M/S)

Materials: Direction vane and housing Black UV stabilized injection molded polycarbonate
Balance weight stainless steel
Terminals three #4-40 solid brass studs with nuts
Potentiometer stainless steel shaft in two shielded precision grade, stainless steel ball bearings, conductive plastic potentiometer element mounted in a machined aluminum housing

Hardware : all stainless steel construction

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Weight: 0.1 kg (0.25 lb.)

Operating temp. : -55°C / 60°C (-67°F / 140° F)

Dimensions: Overall length - 21 cm(8.3 in)

Swept diameter - 27 cm (10.5 in)

Overall height - 12 cm (4.3 in)

Vane size - 6 cm h x 10 cm l (2.3 in x 3.8 in)

Main housing diameter - 5 cm (2 in)

Mounting: 13 mm (0.5 in) diameter mast with cotter pin and mast set screw

Electrical:

Range: Direction-352 degrees electrical (8 degrees open)

Signal: Analog DC voltage from conductive plastic potentiometer resistance 10K; linearity 1.0%, life expectancy of 50 million revolutions (4-6 years normal operation)

Power requirements: Regulated potentiometer excitation of 1 to 15VDC

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