## Model A75-302 Wind Vane

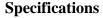
Document 1877D

## **Applications**

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

## **Features**

- Simple mechanical construction
- Long life, industrial/commercial grade potentiometer
- Corrosion resistant materials
- Multiple mechanical and contact seals
- Very stable and smooth response to wind changes
- Fully balanced sensor vane
- Designed to minimize icing.



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: Tail Black UV stabilized injection molded polycarbonate Housing: Conductive Black UV stabilized polycarbonate Balance weight: bronze Terminals: three #4-40 brass studs with nuts Potentiometer: aluminum shaft in sealed precision grade, stainless steel ball bearings, conductive plastic potentiometer element mounted in a machined aluminum housing

Hardware: stainless steel

Weight: 0.1 kg (0.25 lb.)



Operating temp. :  $-55_{\circ}$ C /  $60_{\circ}$ C ( $-67_{\circ}$ F /  $140_{\circ}$  F)

Dimensions: Overall length - 21 cm(8.3 in)

Swept diameter - 27 cm (1 0.5 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

Electrical:

Range: Direction-355 degrees electrical (5

degrees open)

Signal: Analog DC voltage from conductive plastic potentiometer resistance 10K ohm; 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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