

Windvane



Long life and reliable

operation



Gravity fastened wind arm



A precision wirewound potentiometer mounted in the same all-weather.. corrosion resistant case as the Porton Windvane. The potentiometer has the lowest possible torque consistent with long life and reliable cperation. The small gap at North is filled with an insulating material to ensure smooth operation over the full 360°. The vane arm is attached by a unique gravity fastener, giving rapid and reliable attachment and release in portable applications.

Performance Maximum wind speed: Over 75 m/s (150 Kts, 170 mph). Threshold: 0.6 m/s (1.2 Kt, 1.4 mph.) - the fin will commence Response: Distance constant: 2.3meters Damping ratio: Range: 360° mechanical angle, full circle continuous rotation Backlash $\pm \frac{1}{2}$ fin removed and replace (no measurable backlash Life: 5×10^7 cycles (10 years of typical exposure).

Accuracy: Temperature range:

Electrical

Potentiometer resistance: Maximum dissipation: Wiper current: Supply voltage: Case to pot voltage: Temperature coeff: Electrical continuity angle: Electrical variation angle: Resolution: Repeatability:

1000 Ohms +10%. 0.5W, -50 to +20°C) (derate linearly to 0.25W at +70°C). 20mA max. 20V max. 125V max. +50 ppm/°C. 357.7° +1.5° (2.3° gap at north). 356.5° +1.5° (3.5 deadband). <u>+</u>0.2° +0.5°

movement when aligned at 45° to the flow.

0.2

movement during use).

+2 obtainable in steady winds over 5m/s.

-50 to +70C (de-icing heater to order).

allowed.

