A75-101R

3-Cup Anemometer

DESIGNED FOR HIGH VOLTAGE APPLICATIONS

FEATURES

-Elegant Design
-Dirt and Water Resistant
-Corrosion Resistant Construction
-Modified Teflon bearing system

APPLICATIONS

-Research Measurments
-Engineering Studies on wind effects on structures
-Control Anemometer for new or existing wind warning devices
-Wind Resource Assessment

SPECIFICATIONS

Accuracy:	5m/s to 25 m/s (11 MPH to 55 MPH) ±0.1 m/s (0.2 MPH)
Threshold:	Starting - less than 1.5 m/s (3.35 MPH)
	Cup Distance Constant - 3.0m (10 ft)(63% recovery)
Materials:	Rotor and Housing Body - Injection molded black polycarbonate (Lexan)
	Shaft - Beryllium Copper (Fully Hardened)
	Bearing - Modified Teflon, self lubricating
	Rated PV factor of 20,000 (at 6.7 m/s or 15 MPH, PV is approx. 500; at 45 m/s or 100 MPH PV is approx. 2,000)
	Upper Bearing is centered in the plane of cup thrust for optimal loading
	Permanent Magnet Indox - 1, 25 mm (1in) diameter, 13 mm (0.5 in) long, 4 pole
Weight:	0.1 kg (0.2 lbs)
Dimensions:	3-Cup Conical Cross Section - 51 mm (2 in) diameter
	Swept Diameter of Rotor - 190 mm (7.5 in)
	Overall Height - 81 mm (3.2 in)
	Moment of Inertia of rotor assembly - 68 x 10-6 S - ft²
Electrical:	Reed Switch: MAX Voltage - 24 VDC
	MAX Current - 10 mA
	Lifetime - 10^9 Cycles
	Output Signal: Contact transfer rate varies linearly with wind speed. 120 contact transfers per second at 102.5 MPH
Environmental:	Operating Temperature - -55°C to 65°C (-67°F to 150°F)
	Operating Humidity - 0-100% RH
	Gust Survival Speed - 232 MPH
	Lifespan - 3-5 Years under normal conditions