

Wind Direction Sensor

024A

The Model 024A Wind Direction Sensor is an accurate, durable and economical sensor suitable for a wide range of wind study applications. It is designed for long term unattended operation in most meteorological environments.

Features

- Range to 100 mph
- Low starting threshold
- Broad temperature operating range
- Built-in alignment and calibration feature
- Accuracy of $\pm 5^\circ$
- Stainless steel and aluminum construction

Operation

The sensor incorporates a precision wire-wound potentiometer for accurate resolution of wind direction. The potentiometer is directly coupled to the vane assembly. Variations in wind direction produce a corresponding varying voltage, which lends itself to both digital and analog measurement systems.

Construction

The construction of the sensor reflects the requirement for reliability and durability. Only the best corrosion resistant materials, such as stainless steels and anodized aluminum are used. The potentiometer meets stringent military specifications for sand, dust, salt spray and fungus resistance. The Model 024A sensor uses a quick-connect sensor cable. Cable length may extend hundreds of feet without affecting measurement performance.



Accuracy, reliability and economy make the Model 024A Wind Direction Sensor an ideal choice for most applications.

Specification

Range:	0 - 360°
Starting Threshold:	1.0 mph
Accuracy:	$\pm 5^\circ$
Delay Distance:	Less than 5 ft
Damping Ratio	
Standard:	0.25 (Metal Vane)
Fast Response:	0.4 (Foam Vane)
Potentiometer	
Sand, Dust, Fungus:	MIL-E-5272
Salt Spray:	MIL-E-12934
Electrical Range:	0 - 360°
	0 - 540° with approp. translator
Operating Range:	-50°C to +70°C
Weight:	1 lb 2 oz
Mounting:	PN 191 Crossarm
Ordering Information	
Standard Model:	024A (Metal Vane)
Fast Response Model:	024A-1 (Lexan Vane)
Cable:	PN 1806-xx (xx=length in ft)



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