

# 034B Wind Sensor

## Economical All Metal Wind Sensor

The Model 034B Wind Sensor combines wind speed and direction measurements into a single sensing unit. The 034B Wind Sensor install in minutes and will provide accurate, long term, continuous monitoring in hostile environments.

### Features:

- Wind speed and direction in a single sensor
- Compact design for minimum visual impact
- Long field life
- Durable aluminum and stainless steel construction
- Low starting threshold
- Stainless steel bearings
- Very low power operation
- Easy maintenance

High quality hard anodized aluminum and stainless steel components insure long life with minimal maintenance. The Model 034B Wind Sensor uses a quick-connect sensor cable. Cable length may extend hundreds of feet without affecting measurement performance.

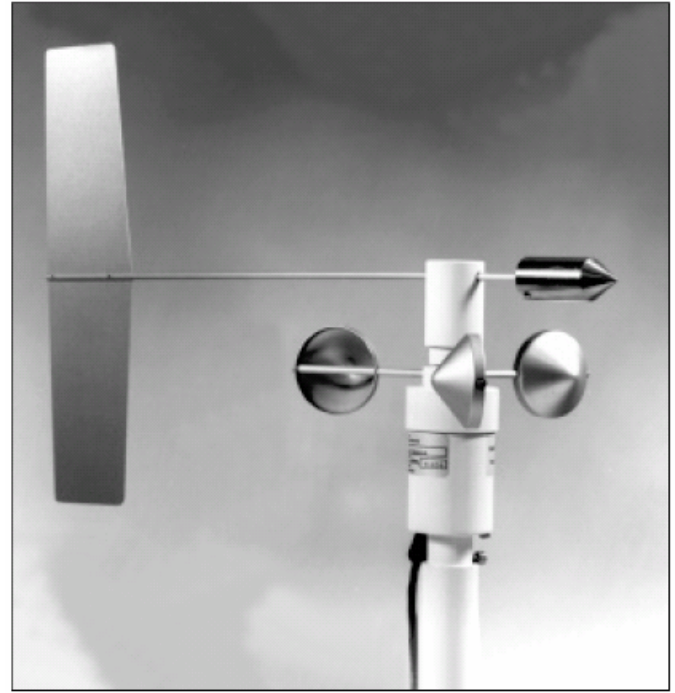
The 034B is designed to operate within a temperature range of  $-30^{\circ}$  to  $+70^{\circ}$  C and with wind speeds up to 167 mph. Wind speed is measured using a sealed reed switch which provides a series of pulses at a rate proportional to wind speed. Aluminum cups are used for durability and strength.

Wind direction is measured using an aluminum vane directly coupled to a precision potentiometer. Variations in wind direction produce a corresponding change of voltage, which lends itself to both digital and analog measurement systems.

Mounting the 034B with the alignment adapter (PN 2954) provides alignment maintenance even if the sensor is removed. The alignment adapter mounts the 034B Wind Sensor to tubing or pipe.

### Ordering Information

034B	Anemometer and Vane
2954	Mounting & alignment bracket
3013	Cable assembly and 20' cable



### Technical Specifications

Wind Speed	
Range:	0-75 m/s (167 mph)
Starting Threshold:	0.9 mph (0.4 m/s)
Accuracy < 22.7 mph:	.25 mph (0.1 m/s)
Accuracy > 22.7 mph:	$\pm 1.1\%$ of true
Wind Direction	
Range:	360° mechanical, 356° electrical
Starting Threshold:	0.9 mph (0.4 m/s)
Accuracy:	$\pm 4^{\circ}$
Damping Ratio:	.25 standard (.4 to .6 optional)
Resolution:	$< 0.5^{\circ}$
Temperature Range:	$-30^{\circ}$ to $+70^{\circ}$ C
Output Signal	
Wind Speed:	Pulsed contact closure
Wind Direction:	Potentiometer output (0 – 10k $\Omega$ )
Mounting:	Mounts with Alignment adapter to a vertical 1" tube or pipe
Weight:	
Sensor Weight:	1lb 12.5oz (0.81 kg)
Shipping Weight:	4lbs 3oz (1.90 kg)