

# Wind Sensor

## 034B

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

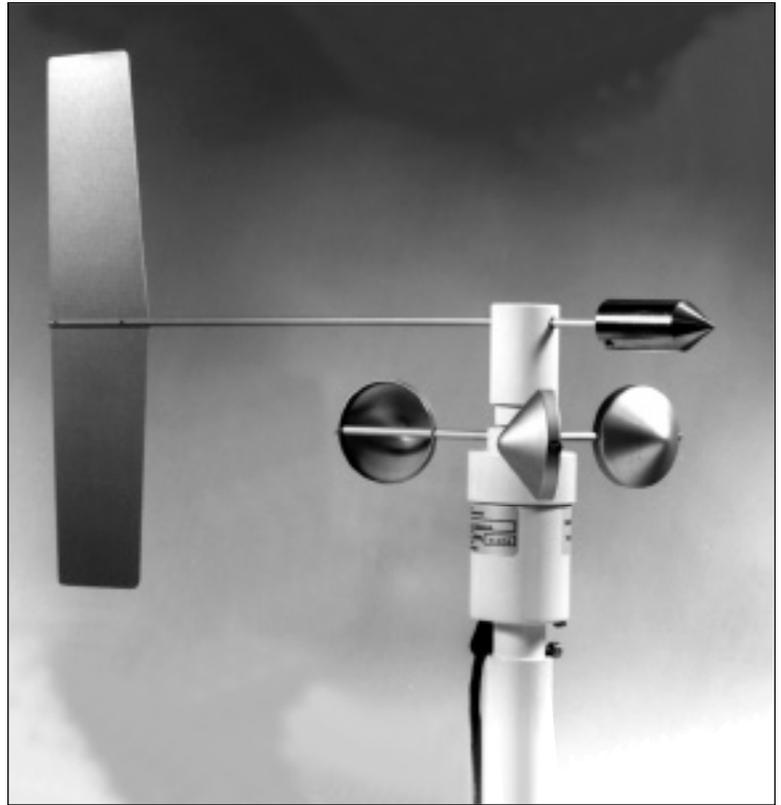
### Features

- 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

### Operation

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.



The Model 034B Wind Sensor is rugged, reliable, and ideal for most weather monitoring requirements.

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.

Improved potentiometer mounting, makes replacement and field re-alignment even easier. When replacement becomes necessary.

### Construction

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.



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# Specifications

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## Wind Speed

Range: 0 - 167 mph (0-75 m/s)  
Starting Threshold: 0.9 mph (0.4 m/s)  
Accuracy < 22.7 mph: .25 mph (0.1 m/s)  
Accuracy > 22.7 mph: ±1.1% of true

## Wind Direction

Range: Mechanical: 0-360°  
Electrical: 0-356°  
Starting Threshold: 0.9 mph (0.4 m/s)  
Accuracy: ±4°  
Damping Ratio: .25 standard (.4 to .6 optional)  
Resolution: < 0.5°

## Temperature Range

-30° C to +70° C (Minimal icing conditions)

## Output Signal

Wind Speed: Pulsed contact closure  
Wind Direction: Potentiometer output (0 - 10 kohms)

## Mounting

Mounts with PN 2954 Alignment Adapter to a vertical 1.0" tubing or pipe (1.05" O.D.)

## Weight

Sensor Weight: 1 lb 12.5 oz (0.81 kg)  
Shipping Weight: 4 lbs 3 oz (1.90 kg)

## Ordering Information

Standard Model: 034B  
Cable: PN 3013-xx (xx=length in feet)  
Alignment Adapter: PN 2954 standard  
PN 7156 Horizontal sensor mounting arm  
Contact factory for special mounting applications

## Accessories

.....PN 60  
PN 3115 Tail assembly repair kit  
PN 3786 Replacement potentiometer  
PN 6871 Wind Speed calibration adapter (use with 049C motor)  
PN 6986 Wind Direction linearity test wheel  
042 Sensor alignment telescope  
608 ADA (Automatic Direction Alignment Compass)