



The Advanced All Metal Wind Sensor combines wind speed and direction measurements into a single

sensing unit. The sensor installs in minutes and provides accurate, long term, continuous monitoring in hostile environments.

The MT-WD0001 is designed to operate within a temperature range of -30° to +70°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 provide 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.

High quality hard anodized aluminum and stainless steel components ensure long life with minimal maintenance. The unit uses a quick-connect sensor cable, which may extend hundreds of feet without affecting measurement performance.

Mounting the MT-WD0001 with the alignment adapter provides alignment maintenance even if the sensor is removed. The alignment adapter mounts the sensor to tubing or pipe.

### Key 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

### 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:	±1.1% of true

#### Wind Direction

Range:	360° mechanical, 356° electrical
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

#### Output Signal

Wind Speed:	Pulsed contact closure
Wind Direction:	Potentiometer output (0 – 10kΩ)
Mounting:	Mounts with Alignment adapter to a vertical 1" tube or pipe

#### Weight

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

### Ordering Options

Anemometer and Vane  
Mounting & alignment bracket  
Cable assembly and 20' cable

