

# Wind Monitor Stations with Dry Contact Alarm or Analog Outputs



WMS-21, dual setpoint wind station, \$690, shown smaller than actual size.



WMS-23S, wind speed and direction module, \$675, shown smaller than actual size.



WMS-23, wind speed and direction module, \$730, shown smaller than actual size.

WMS Series  
Starts at  
**\$675**



The WMS-20 Series consist of 3 individual wind monitor stations. The WMS-21 is a microprocessor-based wind alarm station. It sounds an alarm buzzer and controls the operation of 2 electrical circuits whenever wind speed reaches either of 2 independent setpoints. An LCD display provides a readout of the measured wind speed and is also used to set the value of the setpoints which are stored in non-volatile memory. Self-contained relays for each alarm point can be used to actuate external devices such as air samplers or sirens. The WMS-23 Series monitors wind speed and direction. Two versions are offered; WMS-23S measures wind speed only, while the WMS-23 measures both wind speed and direction. Each parameter is converted into a 4 to 20 mA signal for use by process controllers or monitoring systems.

## Specifications

### WMS-21

#### Wind Speed

**Measurement Range:** 0 to 100 mph

**Transducer Type:** Reed switch

**Avg Speed Resolution:** 0.1 mph

**Threshold Speed:** 0.8 mph

**Measurement Accuracy:**

1 mph or 3%

**Controls:** Protected push-button for run, or set variables, select menu items, increment and decrement alarm values

**Alarm On/Off Delay Range:**

0 to 99 sec

**Contact Ratings:** 3 A SPDT @ 24 Vdc

**Display:** 2 line x 16 character LCD

**Character Size:** 3 x 8 mm

**Setpoint 1 and 2:** LED

**Supply Voltage:** 12 Vac or Vdc

**Supply Current:** 50 mA, 5 mA nominal

**Operating Temperature:**

-20 to 50°C (-4 to 122°F)

**Dimensions:**

**Anemometer:**

114.3 H x 215.9 W mm (4.5 x 8.5")

**Sensor Cable Length:** 12 m (40'), supplied

**Electronics Enclosure Size:**

119.3 H x 198.1 W x 88.9 D mm (4.7 x 7.8 x 3.5")

### WMS-23 (Wind Speed and Direction)

#### WMS-23S (Wind Speed)

**Measurement Range:** 0 to 100 mph

**Transducer Type:** Reed switch

**Threshold Speed:** 0.8 mph

**Measurement Accuracy:**

1 mph or 3%

### WMS-23 Only (Wind Direction)

**Azimuth Accuracy:** ± 3%

**Mechanical Range:** 0 to 360°

**Potentiometer Gap:** 5°

**Threshold:** 1.2 mph

**Measurement Range:** 0 to 360°

**Current Loop:**

**Output Span:** 4 to 20 mA

**Proportioned:** 0 to 100 mph, 0 to 360°

**Circuit Time Constant:** 1 sec

**2-Wire Loop Interface:** Screw terminal block

**Supply Voltage:** 8 to 30 Vdc

**Operating Temperature:**

-40 to 40°C (-40 to 104°F)

**Dimensions:**

**Anemometer and Vane:**

305 H x 254 W mm (12 x 10")

**Anemometer Only:**

114.3 H x 215.9 W mm

(4.5 x 8.5")

**Sensor Cable Length:** 12 m

(40'), supplied

**Electronics Enclosure Size:**

114.3 H x 114.3 W x 63.5 D mm

(4.5 x 4.5 x 2.5")

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## To Order (Specify Model Number)

Model No.	Price	Description
WMS-21	\$725	Dual setpoint wind station
WMS-23S	675	Wind speed only 4 to 20 mA output
WMS-23	730	Wind speed/direction 4 to 20 mA output
WMS-EC-40	40	12 m (40') extension cable

Comes with sensor cable and operator's manual.

**Ordering Example:** WMS-23, wind speed/direction wind station with 4 to 20 mA output and cable, \$730, and WMS-EC-40, 12 m (40') extra extension cable, \$40, \$730 + 40 = \$770.

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