

WIND MONITOR STATIONS

With Dry Contact Alarm or Analog Outputs

WMS Series



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



WMS-23, wind speed and direction sensor module shown smaller than actual size.

The WMS-21 dual setpoint wind alarm is a microprocessor-based wind alarm system. It features an audible alarm and controls two relays whenever wind speed reaches either of two independent setpoints. An LCD displays the current and wind speeds.

The WMS-23S monitors wind speed, converting 0 to 100 mph wind velocity to a proportional 4 to 20 mA signal for use by process controllers or monitoring systems. The WMS-23 monitors wind speed and direction, with a second 4 to 20 mA signal corresponding to 0 to 360°. The three cup anemometer (and wind vane) is constructed of UV resistant ABS plastic and anodized aluminum, while the electronics are housed in a gasketed wall mount NEMA enclosure.

SPECIFICATIONS

WMS-21

- Transducer:** Sealed magnetic switch
- Range:** 0 to 100 mph
- Resolution:** 0.1 mph
- Threshold Speed:** 1 mph
- Accuracy:** 1 mph or $\pm 3\%$ which ever is larger
- Alarm ON and/or OFF Delay:** 0 to 99 sec, adjustable
- Indicators:** LEDs for alarm point 1 and 2; 2 line x 16 character LCD, 3 x 8 mm (0.12 x 0.31") size
- Operating Temperature:** -20 to 50°C (-4 to 122°F)
- Power:** 12 Vac or dc; 50 mA maximum
- Alarms:** Contacts rated 3A at 24 Vdc/115 Vac, SPDT
- Anemometer Cable Length:** 12 m (40'), included
- Dimensions, Anemometer:** 114 H x 216 W mm (4.5 x 8.5")
- Dimensions, Electronics Enclosure:** 120 H x 198 W x 89 mm D (4.7 x 7.8 x 3.5")
- Mounting:** 27 mm (1.062") OD pipe (3/4" IPS)

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

- Speed Threshold:** 0.8 mph
- Transducer Type:** Reed switch
- Measurement Range:** 0 to 100 mph
- Accuracy:** 1 mph or $\pm 3\%$
- Output:** 4 to 20 mA, proportioned to 0 to 100 mph
- Dimensions, Anemometer:** 114 H x 216 mm W (4.5 x 8.5")
- WMS-23 (Wind Direction)**
- Azimuth Accuracy:** $\pm 3^\circ$
- Range:** 0 to 360°
- Potentiometer Gap:** 5°
- Threshold:** 1.2 mph
- Bearings:** Bushing
- Outputs:** Dual 4 to 20 mA loops, proportioned to 0 to 100 mph and to 0 to 360°
- Dimensions, Anemometer/vane:** 305 H x 254 mm W (12 x 10")



WMS-23, electronics. Complete unit includes, sensor module and electronics. Shown smaller than actual size.

COMMON SPECIFICATIONS

WMS-23 and WMS-23S

- Current Loop Accuracy:** $\pm 1\%$ full scale
- Power:** 8 to 30 Vdc
- Circuit Time Constant:** 1 sec
- Temperature Range:** -40 to 40°C (-40 to 104°F)
- Dimensions, Electronics Enclosure:** 120 x 120 x 57 mm D (4.7 x 4.7 x 2.25")
- Cable:** 12 m (40') included

To Order

Model No.	Description
WMS-21	Dual setpoint wind station
WMS-23S	Wind speed monitor 4 to 20 mA output
WMS-23	Wind speed/direction monitor, dual 4 to 20 mA outputs
WMS-EC-40	12 m (40') extension cable

Comes complete with sensor cable and operator's manual.

Ordering Example: WMS-23, wind speed/direction wind station with dual 4 to 20 mA outputs and cable, and WMS-EC-40, 12 m (40') extra extension cable.