

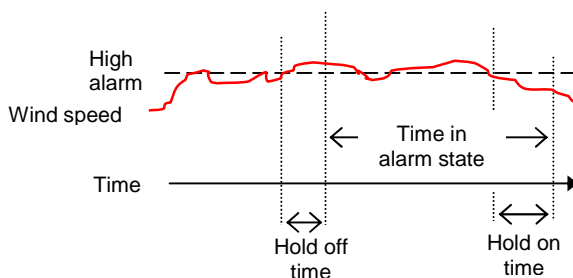
FUNCTIONS AND FEATURES:

- Digital wind speed
- Digital wind direction
- Wind direction arrow with cardinal points
- High or low wind speed alarm
- Filtering to inhibit false alarm
- Sensor alignment correction
- Speed in m/s, kts, mph, km/h, or fpm
- Rugged construction, IP65
- Clear alpha-numeric display
- Display backlight
- Display provides user prompts
- Easy to operate
- Simple to install
- Compatible with WindSonic sensors
- Accepts RS232 or RS422/RS485 input
- RS232 output



The WS-15A offers a cost effective solution for wind display and monitoring when using the WindSonic range of wind sensors. It has an easy to read alpha-numeric display which shows wind speed in a choice of measurement units and wind direction in degrees, as a wind arrow and as cardinal points. There is a wind speed alarm output and sensor/system status display.

The wind speed alarm is configurable as either a high or a low alarm and to avoid false alarm events, there are adjustable hold off and hold on times as shown below:



The five tactile buttons with displayed prompts make operation and configuration of the system simple. Adjustable settings include sensor alignment, alarm, wind speed units, sensor input, display contrast and backlight. An adjustment lock is provided to avoid inadvertent adjustment of the alarm and sensor settings.

An RS232 output is provided for connecting to a data logger or computer. When using the WindSonic's RS422/RS485 output this can often eliminate the need for a separate RS422/RS485 to RS232 converter. There is also an optically isolated input for when extra isolation of the sensor is required.

In a system several WS-15A display units can be connected to one sensor or daisy chained using the RS232 output.

APPLICATIONS

WS-15A Display Unit is ideal for applications in:-

- Construction
- Cranes
- Agriculture
- Aviation
- HVAC
- Environmental and pollution control
- Portable and roadside weather stations
- Utilities
- Marine
- Health and safety
- Tunnels

SPECIFICATION

PHYSICAL

Mounting: Surface mounted.

Dimensions:

Width: 140mm (including mounting feet)

Depth: 100mm (including cable glands)

Height: 65mm (including mounting feet)

Panel Dimensions: 120mm x 80mm

Cable Access: Four waterproof glands.

Weight: 0.35kg

Material: Light Grey Polycarbonate

ENVIRONMENTAL

Operating Temperature Range: -10°C to +70°C

Sealing: IP65

EMC: EN61326:1977, EN60945:2002 (emissions)

EN61326:1997 (immunity)

POWER

Power requirement: 9-30Vdc

Current at 12Vdc: 20mA – 35mA (backlight on)

Supply Input protection: Polarity reversal protected.
Internal fuse 1 amp Littelfuse 452 or 454 series.

Connection: Internal lever action terminals for AWG 28 to 22 conductors.

DISPLAY OPERATION

Display: Two line 20 character dot matrix super-twist LCD with backlight.

Operation: 5 keys on front of unit for menu navigation, data entry and control functions.

Functions: Wind Speed, wind direction, wind speed high/low alarm with hold on and hold off period, sensor alignment, wind speed measurement units, contrast, backlight, sensor selection.

Wind direction display: Digital 3 digits with wind arrow and cardinal points.

Wind speed display: Digital display with units selection from kts, mph, km/h, fpm, m/s

Sensor Status: Error code displayed for sensor/communications failure or unreliability.

CONNECTIVITY

Wind Sensor: WindSonic sensor outputting RS232 or RS422/RS485 at 9600 baud in factory default format.

Alarm Output: Volt free relay output. Max 24Vdc at switching current of 0.5 amperes. Contact resistance 0.150 ohm maximum.

Data output: RS232 for connection to a data logger, computer, communications equipment or additional WS-15A display units.

The manufacturers reserve the right to amend the specification and prices without prior notice

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