

# Meteo M&R

## wind measurement

### WS-15A wind display

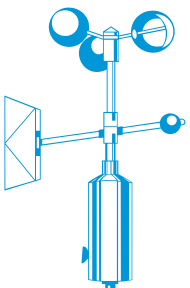


COST EFFECTIVE SOLUTION

FOR WIND DISPLAY & MONITORING

WHEN USING WINDSONIC WIND SENSORS

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.



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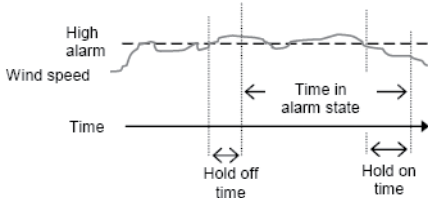
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The wind speed alarm is configurable as either a high or a low alarm and to avoid false alarm events, there are adjustable hold off and hold on times.

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

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

### TECHNICAL SPECIFICATIONS

#### PHYSICAL

Mounting	Surface mounted.
Width	140mm (including mounting feet)
Depth	100mm (including cable gland)
Height	65mm
Panel Dimensions	120mm x 80mm
Weight	0.35kg
Material	ABS Polycarbonate blend

#### ENVIRONMENTAL

Operating Temperature Range	-10°C to +70°C
Sealing	IP65
EMC	EN61326:1977, EN60945:2005 (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 Littelfuse 452 or 454 series
Connection	Internal lever action terminals
Wire acceptance	0.32 to 0.65 mm diameter (AWG 28 to 22)

#### DISPLAY

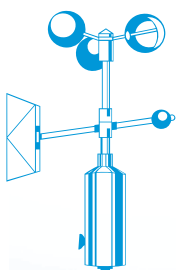
Display	Two line 20 character dot matrix super-twist LCD with backlight
Operation	5 keys on front of unit for menu navigation, data entry and control functions.
Functions	Wind Speed, wind direction, wind speed high/low alarm with hold on/off period, sensor alignment adjustment, contrast, backlight, sensor selection
Wind direction display	Digital 3 digits with 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 of unreliability.
Output	Relay driver output to sounder

#### 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

### FUNCTIONS & 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 ft/min
- 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



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scientific and meteorological instruments

handelskade 76  
2288 bg rijswijk  
the netherlands

p.o.box 1111  
2280 cc rijswijk  
the netherlands

tel. +31 70 3070706  
fax +31 70 3070938

www.wittich.nl  
info@wittich.nl