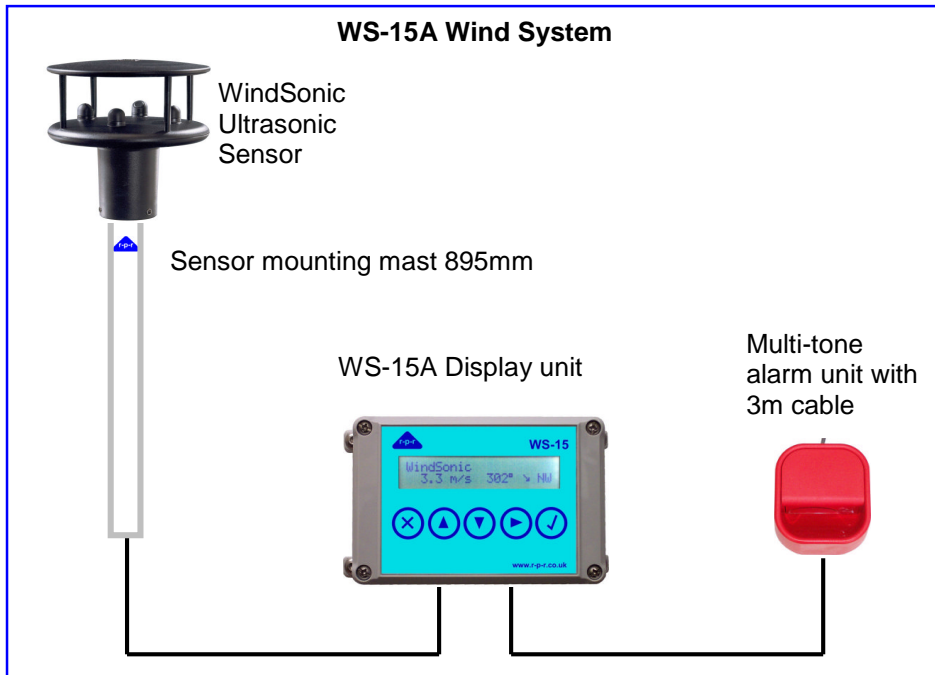


WS-15A ULTRASONIC WIND SYSTEM



- Applications**
- Construction
 - Cranes
 - Health and Safety
 - HVAC
 - Environmental and Pollution control
 - Portable & Roadside weather stations
 - Utilities
 - Agriculture
 - Marine
 - Tunnels

- Features**
- SENSOR**
- No moving parts
 - No calibration required
 - Low start up speed (0.02m/s)
 - True 0 to 360 degree operation
 - Single unit for both wind speed and direction
- DISPLAY**
- Compact size
 - Rugged construction, IP65 rated
 - Clear alpha-numeric display
 - Backlight
 - Display provides user prompts
 - Easy to operate
 - Simple to install
 - Compatible with WS 1, WS 2 and WS 3 sensors
 - Alarm relay output

- System options**
- Sensor to display distance?
LESS THAN 15m – use WindSonic 1 sensor (RS232 only)
MORE THAN 15m (or the system is in an electrically noisy environment) - use WindSonic 2 sensor (RS232/485)
 - Analogue signal requirement - use WindSonic 3
 - Magnetic mounts for display and alarm
 - Data Logger (integral to WS-15A display or in external housing – contact us)
 - Longer cable lengths available

Ordering information

Order code	System contents
WS-15A/RS232	WindSonic 1 sensor, 895mm sensor mounting mast, 10m RS232 tx sensor cable, WS-15A display, Multi-tone alarm unit with 3m cable
WS-15A/RS485	WindSonic 2 sensor, 895mm sensor mounting mast, 20m RS485 tx sensor cable, WS-15A display, Multi-tone alarm unit with 3m cable
WS-15A/ANALOGUE	WindSonic 3 sensor, Sensor plug, 895mm sensor mounting mast, WS15A display, Multi-tone alarm unit with 3m cable.

For other options and non standard cable lengths please contact our sales office (details overleaf). Richard Paul Russell Ltd. reserves the right to change specifications at any time.

SYSTEM SPECIFICATION

SENSOR

PHYSICAL

Size: 142mm diameter x 160mm

Weight: 0.5kg

Mounting: Pipe mounting 1.75 inches (44.45mm) diameter

Material External: Acrylate Styrene Acrylonitrile, Polycarbonate blend

PERFORMANCE

Wind speed range: 0.1m/s to 60 m/s

Wind speed accuracy: +/-2%

Wind direction range: 0-360° (no dead band)

Wind direction accuracy: +/- 3°

OUTPUT

Defaults:-

Communications:

WS 1 RS232

WS 2 RS232 / RS485

WS 3 RS232 / RS485 / 4-20mA /0-5v analogue

Output rate: 1 per sec

Measure: Wind speed and direction

Serial output format: Polar

Serial output baud rate: 9600

POWER

Power requirements: 9-30 Vdc at 15 mA typical

ENVIRONMENTAL

Operating temperature range: -35°C to +70°C

Operating humidity: <5% to 100%

MISCELLANEOUS

MTBF: 15 Years

Quality system: Manufactured within ISO9001 quality system.

DISPLAY

PHYSICAL

Mounting: Surface Mounted

Dimensions:

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

POWER

Power requirement: 9-30Vdc

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

Supply input protection: Polarity reversal protected (internal fuse)

Connection: Internal lever action terminals

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/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

Output: Relay driver output to sounder

MAST

Dimensions: Length 895mm, diameter 44.5mm (1.75in.) drilled and tapped to fit WindSonic sensor

Material: Anodised aluminium

Weight: 1kg

SOUNDER

PHYSICAL

Mounting: Surface mounted

Dimensions:

Width: 100mm

Depth: 80mm

Height: 110mm

Weight: 0.25kg

PERFORMANCE

Sound Output: 104dB(A) @ 1m

Volume adjustment: 18dB(A)

Sound tones: 32 adjustable by internal switch setting

POWER

Power requirements: (12V – 35Vdc) at 25mA

Connection: Internal terminals via sealed gland

ENVIRONMENTAL

Operating temperature: 25°C to + 40°C

Relative humidity: 95% at 40°C

Sealing: IP65 rated

Richard Paul Russell Limited
New Harbour Building, Bath Rd, Lymington,
SO41 3SE, UK
Tel: +44 (0) 1590 679755
Fax: +44 (0) 1590 688577
e-mail: sales@r-p-r.co.uk
www.r-p-r.co.uk

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