



SCARLET TECH

# ScarletWind™

- Extremely Easy Mounting
- 400 m Long Range Transmission
- 4 Years Sensor Battery Life
- Rigid & Shock Resistance
- Replaceable Wind Cups

## WR-3

Best Low Cost Wireless  
Anemometer Ever



## Introduction

Operating a crane in windy conditions can create a potentially dangerous situation. The wind forces imposed on both the crane and the load, which can affect the strength and stability of the crane. In order to ensure everyone's safety during lifting operations, it is imperative that all members of the lifting team knowing the wind speed and the wind resistance.

The challenge of knowing the the wind speed is the connection between sensor and display. Traditional cable solution wouldn't work well. Scarlet Wireless Anemometer Series provide elegant solutions ranges from simple display (WR-3), data logger (WL-11) and full-fledged wireless alarming system (WL-410).

The beauty of Scarlet's solution is one sensor, connect to any number & type of displays to notify anyone who cares about the safety. All are wireless.

## Application Areas

- Mobile/Tower/Bridge Cranes
- Lifting Equipment
- Offshore Oil Platform
- Marine Application
- Aviation Industry
- Agriculture Field

## Features

WR3-B is a long range portable wireless anemometer. It has handheld portable display unit and sensor suitable for both - permanent or temporary installation. Sensor with ball bearings and long life battery ensure long period without servicing. Sensor send data every 2 seconds so you have instant information about wind speed anywhere in the 400 m radius from the sensor. Each sensor has its own address so several anemometers can operate in close proximity without disturbance.

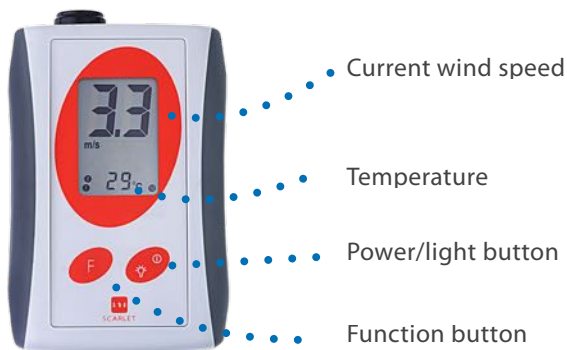
- Long life sensor with stainless ball bearing
- Up to 4 years sensor battery life
- 868 MHz RF enables 400 m tranmission
- Shock resistant display unit with rubber sides
- Large digits on illuminated LCD display
- Very low power consumption
- Easy replaceable anemometer cups



# Functions

WR-3 is designed to be deployed & used easily. The LCD display screen is large and user can focus on the radical information needed in the application. User can also configured the display unit easily by few button pressing to select different averaging period and display units.

- Current wind speed
- Maximum wind speed
- Average wind speed (selectable averaging)
- All standard units (knots, m/s, km/h, mph)
- Beaufort bar graph
- Temperature in Celsius or Fahrenheit degree
- Wind chill - subjective ambient temperature dependent on wind speed
- Sound alarm at exceeded wind speed



# Technical Specification

## Sensors

Wind speed	Range: 0.6...50 m/s
	Resolution: 0.1 m/s
	Accuracy: typ. +/-3%
	Unit: m/s, km/h, knots, mph
Temperature	Range: -30...60° C
	Resolution: 1° C
	Accuracy: +/- 1° C
	Unit: ° C, ° F

## RF & battery

RF frequency	868 MHz (optional 908 MHz)
Data rate	every 2 seconds
Range	Up to 400 m in open space
Sensor battery	1x 3.6 V AA Lithium battery (included), replaceable
Receiver battery	2 x 1.5 V AA batteries (not included), replaceable
Sensor battery life	4 years
Receiver battery life	5000 hours. 300 hours w/ backlight

## Mechanical

Sensor bearings	2 x precision stainless steel ball bearings
Receiver housing	ABS
Receiver dimension	94 x 63 x 28 mm
Sensor housing	Anodized aluminum & PVC
Sensor - cups	PA (polyamide)
Sensor dimension	210 (H) x 120 mm (cup-to-cup diameter)
Mounting	Sensor mounts on ø20 mm pipe

## Mounting & Spare

Self-leveling mounting bracket and spare wind cup can be ordered on demand.





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