

**ALL-NEW 2020**



SCARLET | TECH

THE BEST-SELLING WIRELESS ANEMOMETER EVER

# WR-3



**400M**

- 400m Long Range Transmission
- 4 Years Sensor Battery Life
- Extremely Easy Mounting

- Impact Resistant
- Replaceable Wind Cups

# Introduction

Cranes operation in windy conditions could 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 cranes. In order to ensure everyone's safety during lifting operations, it is very important for the members in the lifting team to know the wind speed and resistance.

The challenge to know 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 the standard display (WR-3), data-logger (WL-11) and full-fledged wireless alarm system (WL-410).

# Features

WR-3 is a long-range portable wireless anemometer. It has a handheld portable display unit and sensor suitable for both permanent and temporary installation. The sensor transmits data every 2 seconds in 400m radius from the receiver. Each sensor has its own address so several anemometers can operate in close proximity without disturbance.

- Durable stainless ball bearing sensor
- 4 years sensor battery life
- 868 MHz RF enables 400 m transmission
- Impact resistant LCD display unit with rubber sides
- Low power consumption
- Replaceable wind 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



# Application Areas

- Cranes & Lifting Equipment
- Outdoor Venues
- Marine and Offshore Application
- Aviation Industry
- Agriculture Field



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Current wind speed

Temperature

Power/light button

Function button

# Technical Specification

## Sensors

Wind speed	Range: 0.1...50 m/s
	Resolution: 0.1 m/s
	Accuracy: typ. +/-2%
	Unit: m/s, km/h, knots, mph
Temperature	Range: -30...60° C
	Resolution: 1° C
	Accuracy: +/- 1° C
	Unit: ° C, ° F

## Mechanical

Sensor bearings	1 x precision stainless steel ball bearings
Receiver housing	ABS
Receiver dimension	94 x 63 x 28 mm
Sensor housing	Anodized aluminum & PVC
Sensor - cups	ABS
Sensor dimension	240 (H) x 187 mm (cup-to-cup diameter)
Mounting	Sensor mounts on ø20 mm pipe

## 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 life

## Accessories

Spare wind cup, self-leveling sensor mounting bracket, and receiver display mounting bracket can be ordered on demand





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