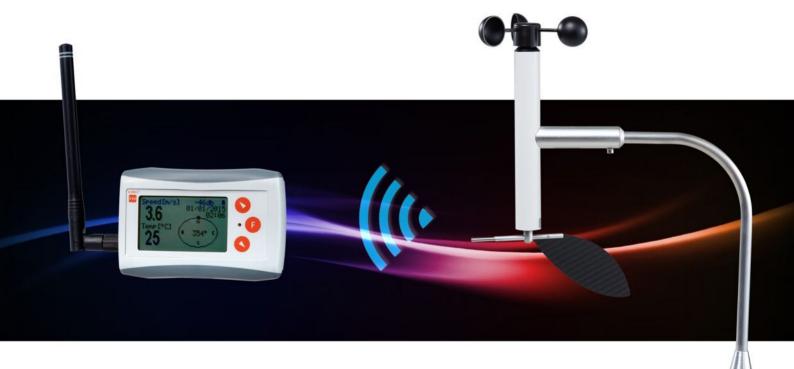# SCARLET TECH

ScarletWind™

- Wind Speed & Direction in One Sensor
- Wireless. No Running Cable
- Log Data on SD Card Automatically
- 4 Years Sensor Battery Life
- Instant Wind Data - Every 2 seconds

WL-11

Innovative wind speed & direction logging system

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), data output model (W-110) 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

- Easy-to-use solution for wind site evaluation
- 4-20 mA or pulse output
- Range up to 1300m (400m at W-110L model)
- Easy installation without running cables
- Replaceable anemometer cups
- UP to 4 years sensor battery life

Option

- 50 Ohm SMA connector for external antenna
- Individual wind tunnel certificate

Accessory & Parts

External antenna	Wind cup	Wind van

Technical Specification

Sensor

Wind speed sensor	Range: 0.6…50 m/s
	Resolution: 0.1 m/s
	Accuracy: typ. +/-3%
	Unit: m/s, km/h, knots, mph
Wind direction sensor	Range: 0…359° no blank sector
	Resolution: 1°
	Accuracy: +/- 2.5°
Temperature sensor	Range: -30…60 °C
	Resolution 1 °C
	Accuracy: 1 °C
	Unit: m/s, km/h, knots, mph

Logging

Logged parameters	Average wind speed Maximum wind speed Average temperature Average wind direction
Logging interval	Configurable 10 s / 1 min / 10 min / 60 min
File creation on SD card	Create new file every day at 10 s logging interval Create new file every month at 1 min / 10 min / 60 min logging interval Create new file after each insertion of SD card Create new file after each settings changes
Data format	.txt
Memory card	Micro SD (4GB included)
Data transmission	Every 2 seconds

Mechanical

Sensor bearings	2 x precision stainless stell ball bearings
Receiver housing	ABS
Receiver dimension	94 x 63 x 28 mm
Sensor housing	Anodized aluminum & PVC
Sensor - cups	PA (polyamide)
Sensor dimension	290 (H() x 120 mm (cup-to-cup diameter)
Mounting	Sensor mounts on ⌀20 mm pipe

RF & battery

	WL-11	WL-11X
RF frequency	868 MHz (optional 908 MHz)	
Data rate	every 2 seconds	
Range	Up to 250 m in open space	Up to 1300 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	3 years
Receiver battery life	12 months, up to 6 months with both sensors	

SCARLET TECH

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