Innovative wind speed & direction logging system

SCARLET TECH

WL-11



- Wind Speed & Direction in One Sensor
- Wireless. No Running Cable
- Loging Data to SD Card Automatically
- 4 Years Sensor Battery Life
- Adjustable logging interval

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 standard display (WR-3), data logger (WL-11), full-fledged wireless alarming system (WL-410).

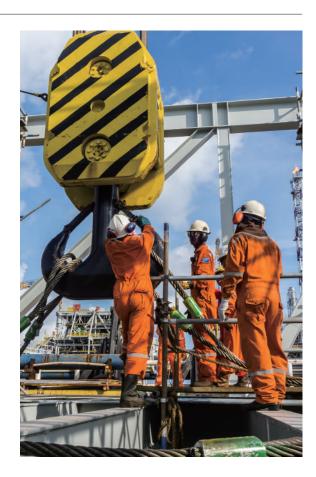
The beauty of Scarlet's solution is one sensor, connect to any number & type of displays to notify anyone who cares about the safety. All are wireless.

Features

- Easy-to-use solution for wind site evaluation
- Transmittion
- Range up to 400m/1300m (WL-11X)
- Easy installation without running cables
- Replaceable anemometer cups
- UP to 4 years sensor battery life

Application Areas

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



Accessory & Parts (Optional)





External antenna External antenna Wind cup Receiver Holder Sensor mounting bracket

| Technical Specification

Sensor

Wind speed sensor	Range: 0.150 m/s
	Resolution: 0.1 m/s
	Accuracy: typ. +/-2%
	Unit: m/s, km/h, knots, mph
Wind direction sensor	Range: 0359° no blank sector
	Resolution: 1°
	Accuracy: +/- 2°
Temperature sensor	Range: -3060 °C
	Resolution 1 °C
	Accuracy: 1 °C

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 (8GB 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 ø20 mm pipe

RF & battery

	WL-11	WL-11X	
RF frequency	868 MHz (optional 908 MHz)		
Data rate	every 2 seconds		
Range	Up to 400 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		





www.scarlet-tech.com info@scarlet.com.tw +886-2-2737-2363