

MEETINSTRUMENTATIE

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Wireless Wind Speed Warning & Control Alarm System







- Extremely Easy Mounting
- Long Range Transmission
- Audible Alarm

- Programmable Relays
- Bluetooth iPhone/Android App

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. 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 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) 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.

| Features

- Extremely easy mounting due to the essence of wireless and magnetic self-leveling mounting
- · Long range. Up to 400m
- · 4 years sensor battery life.
- · Integrated alarm & pre-alarm warning lights
- · Build in audible alarm
- · 4 programmable alarm relay outputs
- · Backlighted graphic LCD with large digits
- · Bluetooth™ 4.0 in WL-410XB transmit measured data to smartphone
- · Free app for iOS and Android devices



| Functions

- · Real time wind speed & bar graph
- · Wind gust in last 2 min & bar graph
- · Temperature
- · 4 Programmable alarm relays with adjustable ON & OFF delay
- · Wind speed & alarm history graph in 8 hr



Application Areas

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



Models

Model XB is with high sensitivity transceiver to extend transmission range. Also, Bluetooth LE was built-in to enable the connectivity to Smartphone. With YAGI antenna, the range could be extended further. Model with 4-20 mA output module provide more flexibility for user to build the instrument into the working infrastructure.

	WL-410	WL-410XB	WL-410XB/ 4-20 mA
4 Relays	~	~	~
Extended Transmission	-	~	~
Smartphone Compatibility	-	~	~
4-20mA outputs Transmission	-	-	~

Accessories

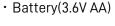
- Power adaptor (input:100-240V, 50/60Hz, 1.5A; output:25V, 2.5A)
- · External antenna
- · 3.6V AA lithium battery
- · IP67 waterproof carrying case
- Wind sensor range extender(Optional)

Anemometer Installation Kit

- · Magnetic self-leveling sensor mounting bracket
- · Display holder

Spare Parts











Wind cup

Adaptor

Magnetic self-leveling sensor mounting bracket

| Technical Specification

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	WL-410	WL-410XB	WL-410XB/4-20mA	
Sensor & receiver				
Measurement range	0.150.0 m/s			
Unit	m/s, km/h, knots, mph			
Resolution	0.1 m/s			
Accuracy	+/-2%			
Averaging period	Selectable 2 s, 10 s, 30 s			
Operating voltage	1224 V DC			
Power consumption	300 mA (max.)			
Transmission distance	400 m	1300 m		
Distance with YAGI antenna	1.52.4 km	6.510.0 km		
Relay contact rating	1 A/12 V DC; 1 A/24 V DC			
Temperature operating range	-2560° C			
Sensor battery	3.6 V AA Lithium battery x1			
Sensor battery life	5 years	3 years		
Audible alarm	8590 dB			
Antenna input (receiver)	50 ohm, SMA connector			
Output				
Relay	4 x relays, 2 A / 24 V			
Output			420 mA	
	_	-	4 mA=0 m/s	
			20 mA=1050 m/s	
			(programmable)	
Mechanical				
Bearings	1 x precision stainless steel ball			
Sensor housing	AL/PVC			
Sensor cups (replaceable)	PA (Nylon)			
Receiver housing	ABS, IP65			
Sensor dimension	Height 240 mm, cup-to-cup diameter 187 mm			
Receiver dimension	150 x 100 x 55 mm			
Mounting	Mounts on a pipe with ø20 mm outside diameter			
Bluetooth LE	- Yes. Range is up to 40 m.			