



SCARLET TECH



- Extremely Easy Mounting
- Long Range Transmission
- Audible Alarm
- Programmable Relays
- Bluetooth™ Output for Smartphone

WL-410/XB

Wireless Wind Alarm System:
Construction site & Industry



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

- Extremely easy mounting due to the essence of wireless and magnetic & self-leveling mounting
- Long range. Up to 500 m (410XB up to 1300 m)
- 4 years sensor battery life.
- Integrated alarm & pre-alarm warning lights
- Build in audible alarm
- 3 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 phone tablet.



FUNCTIONS

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



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-410/4-20 mA	WL-410XB	WL-410XB/4-20 mA
3 relays	✓	✓	✓	✓
4-20 mA output	-	✓	-	✓
Smartphone compatibility	-	-	✓	✓
eXtended transmission	-	-	✓	✓

Accessories

- Magnetic receiver mounting assembly
- External antenna with 4 m cable, magnetic mounting
- YAGI antenna with 3 m cable
- Outdoor antenna with 3 m cable

Sensor mounting

- Self leveling mounting assembly
- Magnetic self leveling mounting assembly
- Magnetic mounting assembly

Spare parts

- Anemometer cups



PARTS

TECHNICAL SPECIFICATION

	WL-410	WL-410/ 4-20mA	WL-410XB	WL-410XB/ 4-20mA
Sensor & receiver				
Measurement range	0.6...50.0 m/s			
Unit	m/s, km/h, knots, mph			
Resolution	0.1 m/s			
Accuracy	+/-3%			
Averaging period	Selectable 2 s, 10 s, 30 s			
Operating voltage	12...24 V DC			
Power consumption	300 mA (max.)			
Transmission distance	300 m		1300 m	
Distance with YAGI antenna	1.5...2.4 km		6.5...10.0 km	
Relay contact rating	1 A/12 V DC; 1 A/24 V DC			
Temperature operating range	-25...60° C			
Sensor battery	3.6 V AA Lithium batteries			
Sensor battery life	5 years		3 years	
Audible alarm	85...90 dB			
Antenna input (receiver)	50 ohm, SMA connector			
Output				
Relay	3 x relays, 2 A / 24 V			
Output	-	4...20 mA 4 mA=0 m/s 20 mA=10...50 m/s (programmable)	-	4...20 mA 4 mA=0 m/s 20 mA=10...50 m/s (programmable)
Mechanical				
Bearings	2 x precision stainless steel ball bearing			
Sensor housing	AL/PVC			
Sensor cups (replaceable)	PA (Nylon)			
Receiver housing	ABS, IP65			
Sensor dimension	Height 210 mm, cup-to-cup diameter 120 mm			
Receiver dimension	150 x 80 x 55 mm			
Mounting	Mounts on a pipe with ̢20 mm outside diameter			
Bluetooth LE	-		Yes. Range is up to 30 m.	



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