2023 ALL NEW

Industrial IoT-Ready Wind Alarm & Control System

SCARLET TECH

WindPro



- Max 1,000M wireless long range
- Touchscreen with 2-sensor channels
- Industrial IoT Devices Control

- 4 Levels Safety Alert
- Data Recording
- Mobile APP & PC Utility

I Features

- Max 1,000M wireless range
- Large full-color touchscreen
- 2-sensor channels for live monitoring and alert
- 4-level configurable alarm with built-in buzzer
- Data recording
- Shows wind speed (live/average/maximum), wind direction, temperature, wind chill, Beaufort scale, air pressure
- Various outputs for IIoT integration (Relay, 4-20mA, RS232, RJ45, Wi-Fi, Bluetooth, USB)
- RS232 PC Utility & Bluetooth Mobile App

Industrial-Grade Wireless Sensor

Professional wind tunnel lab calibrated to fit industrial standard. Maintenance free. Reliable for the toughest working environment.

Long Wireless Range: Max 1,000 meters

Sensors: Wind speed, Wind direction, Air temperature, Air pressure

Battery Power: Max 3 years of operation

Waterproof: IP67 certified

Multiple display connection: WindPro consoles & WL-21 portable displays



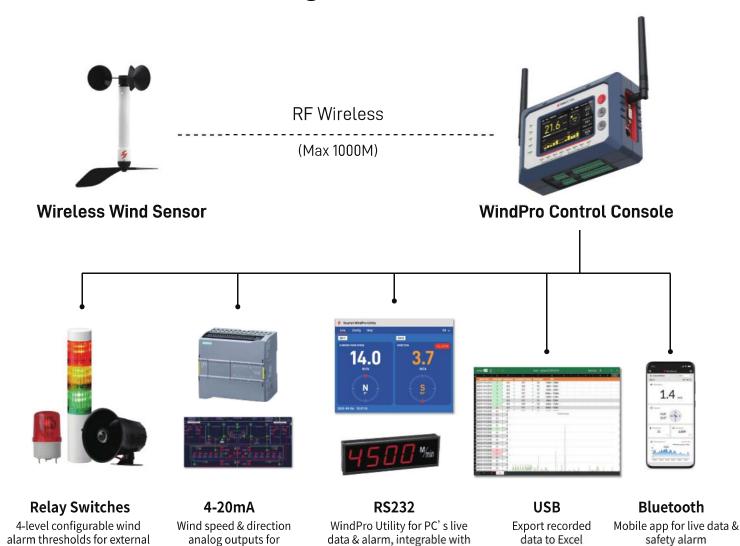
All-in-One Touch Console

Full-color backlit touchscreen monitor with with a sleek, user-friendly interface. Access all the essential wind data in various units, right at your fingertips.

- Wind Speed (Live, Maximum, Average)
- Wind Direction
- Hourly Wind Graph (Past 12 Hours)
- Ambient Temperature
- Beaufort Scale
- Wind Chill
- Atmospheric Pressure



Industrial IoT Integration



display signs

Safety Warning & Control

control & data

acquisition

Set up to 4 alerts per wind sensor channel with WindPro Console. Get notified with visual and audible alarms or external devices connected to the outputs.

- Alarm Types: Wind speed/ Wind direction/ Connection
- Thresholds: 4 for each sensor

devices control

- Devices control: Single relay / Multiple relays
- Configurable: Alarm duration/ Response time/ Threshold invert

Dual Sensor Channels

WindPro Console can connected with 2 wireless sensors at the same time for live monitoring, data recording, alert, and devices integration.

Capable sensor types:

- WL-21 Wind Speed & Wind Direction Sensor
- WR-3 Plus Wind Speed Sensor



Data Recording

History logs can be directly export to Excel via ScarletWind software for detailed analysis, making it easy to evaluate important information when you need it most. Users can opt-in for Web Portal for unlimited cloud back up and advanced graphic/chart for analysis.

• Memory: 64MB each sensor channel

• Data Format: Excel

• **Recorded Data:** Timestamp, wind speed, wind direction, air temperature, air pressure.



Bluetooth Mobile App

With WindSmart mobile app, multiple users can acquire live wind data and instant safety notification from individual smart devices at the same time.





RS232 PC Utility

Access readouts and alert directly on your PC via Scarlet's WindPro Utility. RS232 direct connection ensure reliable monitoring with internet connection.



| Applications







Cranes & Construction

Ports, Terminals & Marine

Entertainment

Renewable Energy

Compare WindPro models





WindPro

WindPro Online

	vvinaPro	winaPro Unline
Wireless Monitoring		
Max 1km Sensor to Console	✓	✓
Bluetooth Mobile App	✓	✓
Worldwide Remote Access	-	✓
Custom Safety Wind Alerts		
4-Level Alert Thresholds	✓	✓
Console Buzzer Alarm	✓	✓
External Devices Integration	✓	✓
Unlimited Custom Remote Alerts	-	✓
Remote Email Alert	-	✓
Remote Browser Alarm	-	✓
Data Recording		
128MB Built-in Memory	✓	✓
Data Export in Excel	✓	✓
Unlimited Cloud Storage	-	✓
Historical Chart/Graph	-	✓
Multiple Devices Monitoring		
Duel-Sensors Liveview Channels	✓	✓
Access Multiple Consoles/	_	✓
Sensors Data Remotely		V
Remote Devices Status Access	-	✓

| Technical Specifications

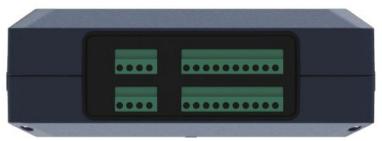
WindPro Control Console

Display	Touchscreen LCD 4.3" (480 x 272)	
	Live/avg/max wind speed	
	Wind direction	
	Ambient Temperature	
Data	Wind Chill	
	Beaufort Scale	
	Air Pressure	
Buzzer Alarm	> 110dB	
Alerm Thresholds	Wind speed x3, Wind direction x1 (each channel)	
Build-in Memory	128MB	
Recording Interval	Every 2 seconds	
Data logger	Wind speed, wind direction, air temperature, air pressure	
	Sensor: 868 / 915 / 933 MHz (Up to 1000m in open space)	
Wireless Technology	Internet: Wi-Fi 802.11 b/g/n	
	Mobile APP: Bluetooth	
	RJ45 x1	
	RS232 x1	
Outputs	USB type C x 1 (for log download)	
	4-20mA x 4 (wind speed & wind direction for each channel)	
	Relays x 4 (for each channel)	
	VCC GND (DC 24V) x 2	
Power Supply	AC 100-240V (Power adaptor)	
Dimension	185 x 126 x 65mm	
Weight	700g	









Wireless Wind Speed & Direction Sensor

Power Supply	3.6V 18505 Lithium battery x1 (up to 3 years)	
Data Rate	Every 2 seconds	
Waterproof Rating	IP67	
Installation	Magnetic sensor bracket	
Dimension	262.5 x 183.5 x32mm	
Weight	406g	

Wind Speed Sensor

Accuracy	±2% full scale	
Range	0.350 m/s	
Unit	m/s, knots, MPH, km/hr, ft/s	
Resolution	1 m/s	
	1 knots	
	0.1 MPH	
	0.1 km/hr	
	0.1 ft/s	

Wind Direction Sensor

Range	0-359° no blank sector
Resolution	1°
Accuracy	±2°

Ambient Temperature Sensor

Range	-30°C 60°C
Accuracy	±1°C
Unit	°C (default) °F
Resolution	0.1°C 0.1°F

Atmospheric Pressure

Range	5001100 hPa	
Accuracy	±0.4 hPa	
Unit	hPa, Atm, mmHg, bar, Pa, inHg	
	1 hPa	
	0.001 Atm	
Resolution	0.01 mmHg	
	0.001 bar	
	100 Pa	
	0.01 inHg	



| Package Content

- WL-21 Wireless Sensor (Wind Speed & Wind Direction)
- 3.6V 18505 Lithium Battery x1 (placed in Sensor)
- Magnetic Sensor Mounting Bracket x1
- WindPro Control Console x1
- Receiver Antennas x 2
- Power Adapter (100-240V, 50/60Hz, 1.5A)
- Receiver Holder Kit x1
- User Manual & Certificate of Conformity



Optional Accessories

- Scarlet Web Portal Access
- WR-3 Plus Wireless Sensor (Wind Speed)
- WL-21 Wireless Sensor (Wind Speed & Wind Direction)
- WindPro Control Console
- WR-3 Plus Wireless Receiver
- WL-21 Wireless Receiver
- LED Stack Light With Siren
- Spare Wind Cups
- Spare Sensor Battery



Web Portal Access



Wireless Wind Speed & Wind Direction Sensor



Wireless Wind Speed Sensor



WL-21 Wireless Receiver



Spare Wind Cups



Spare Sensor Battery



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