SCARLET WINDPRO WIRELESS ANEMOMETER



Web-based Online Wireless Wind Monitoring System

For Professional / Industrial / Construction / Marine / HSE use

WindPro/S WindPro SD WindPro SD





WiFi Industrial Internet of Things(IIOT)

Wireless technology real time update
Ultra transmission distance
Long sensor battery life
Integration via industrial output

Introduction

Scarlet WindPro™ is a stand-alone system that helps users get real time site wind information, anywhere, from any smart device by simply logging into Scarlet web portal. The novel Smart Wind Monitoring System perfectly solves the spatial limitation that has long troubled users from large-scale constructions, marine ports and offshore sites.

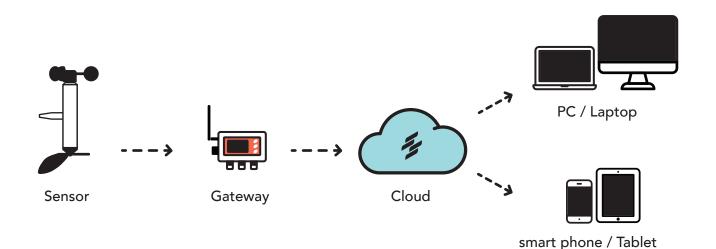
The Scarlet Wind Pro™ cloud-based web hub supports unlimited data storage of 24/7 wind conditions and auto report generation. Multiple users can acquire synchronized live wind data from individual smart device at the same time regardless where they are through this smart system.

By using Scarlet Wind Pro[™], users are no more restricted to monitor wind on site in person but can freely observe wind either from PC, laptops, smartphones or tablets in remote distance. It helps you to deliver the best operation strategy for your project. Scarlet Wind Pro is the optimal savior to users who wants to manage worksite smartly, reduce costly accidents and risks in team.

Framework

Scarlet WindPro™ applies state-of-art proven radio frequency wireless technology and WIFI. The robust wind speed, direction and temperature sensor collect and push real-time data to internet for further analysis. The system consists of 3 components: wind sensor, gateway and web service.

| Sensor | Gateway | Web service |
|--|--|---|
| Detect wind speed, direction and temperature. Transmit data to Scarlet wireless gateway. | Connect local WIFI network and transmit data to the web. | Online service allows user to monitor data 24/7 in multiple platforms including PC, laptops, smartphones and tablets. |



Application Areas









Features

- · Synchronized data on monitor display and web portal
- · Long range transmission distance. Up to 500 m (410XB up to 1300 m)
- · Extremely easy mounting with magnetic & self-leveling mounting
- · 4 years sensor battery life.
- · Integrated alarm & pre-alarm warning lights
- · Built-in audible alarm
- · 3 programmable alarm relay outputs
- · Backlighted graphic LCD with large digits

Functions

- · 24/7 Online Wind Monitoring
- · Historical Data Analysis
- · Cloud-based Platform with Unlimited Data Storage
- · Manage Worksites Smartly and Safely
- · Automatically Data Logging by User Default

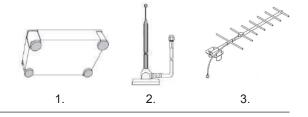


| Technical Data | | |
|--|--|--|
| Wind speed measurement range: | 0.1 - 50.0 m/s | |
| Wind direction measurement range: | 0° - 359° | |
| Temperatutre measurement range: | -30+60 °C | |
| Wind speed units: | m/s, km/h, knots, mph | |
| Temperature units: | °C, °F | |
| Wind speed averaging period: | selectable 2 s, 10 s, 30 s | |
| Wind direction averaging period: | 10 s | |
| Wind speed resolution: | 0.1 m/s | |
| Wind direction resolution: | 10 | |
| Temperature resolution: | 1 0C | |
| Wind speed accuracy: | typ. +/- 3 % | |
| Wind direction accuracy: | +/- 3° | |
| Temperature accuracy: | +/- 1°C | |
| Operating voltage: | 12-24 V DC | |
| Power consumption: | max 300 mA | |
| Operating range: | | |
| with standard range sensor | up to 500 m | |
| with extended range sensor | up to 1300 m | |
| with connected Yagi antenna | 3 - 5 x nominal range | |
| Operating Frequency: | 868 MHz | |
| Temperature operating range: | -30 +60 °C | |
| Outputs: Relay | 4 relay, contact rating 2 A / 24 V | |
| Signal output (4-20mA): | 420 mA, (not isolated, common ground with supply) | |
| | 4 mA = 0 m/s | |
| | 20 mA = programmable 10 - 50 m/s | |
| | Error current: 3,6 mA (if signal from sensor is missing) | |
| Sound signal (integrated): | 85 dB | |
| Antenna input: | 50 Ohm, SMA connector | |
| Measuring rate: | every 2 sec | |
| Wi-Fi Module: | ESP-WRO OM-02, 802.11 b/g/n | |
| Wi-Fi Frequency range: | 2.4 GHz ~ 2.5 GHz | |
| WiFi Output power: Min 13dbm,Max 15dbm | | |
| Material casing | PC (Polycarbonate) | |
| Dimensions receiver: | $130 \times 80 \times 36 \mathrm{mm}$ | |
| Weight: | 320 g | |

Subject to technical modification without notice.

ACCESSORIES (optional)

- Magnetic display mounting assembly (for W410 display)
 External antenna with 3 m cable
 External Yagi antenna with 3 m cable



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