

FS series wind speed sensor wiring, maintenance and instruction manual V1.00

Before installing the sensor, please read this manual carefully for proper use and maintenance.

## Overview

FS-A1-30 wind speed sensor, compact and lightweight, easy to carry and assembly, three cup design concept can effectively access the external environment information, the shell with high-quality aluminum alloy profiles, external plating spray treatment, with good anti-Erosion and other characteristics, to ensure long-term use of rust-free phenomenon, while with the internal smooth bearing system to ensure the accuracy of information collection. Is widely used in greenhouse, environmental protection, weather stations, ships, docks, breeding and other environmental wind speed measurement.

## 2. Technical parameters

Use of places: outdoor

Waterproof Type: Waterproof

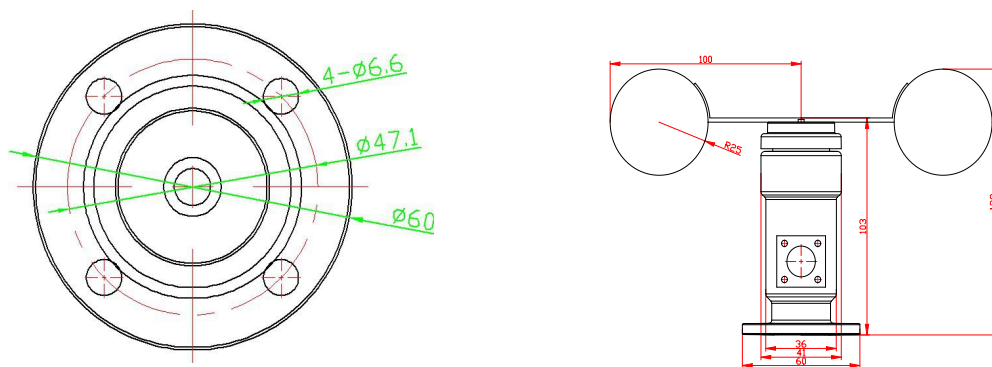
▲ voltage output type

Range: 0 ~ 30m / s

Supply voltage: 12V DC

Output signal: 4-20ma output

### 3. Dimension



### 4. Installation method

With flange installation, threaded flange connection to the lower part of the wind sensor tube firmly fixed to the flange, the chassis 65mm, 50mm circumference on the four are installed 6mm hole, the use of bolts to tightly fixed on the bracket , So that the entire instrument to maintain the best level, to ensure the accuracy of wind direction data, flange connection easy to use, able to withstand greater pressure.

## 5. Power supply and communication terminal wiring

Name	Line color
+	red
-	black
Current signal	blue

## 6. Linear contrast formula

Current type:  $(\text{maximum measuring range} - \text{minimum measuring range}) / (20-4) = \text{current value} / (\text{current current value} - 4)$

\*\*\*\*\* current + minimum measurement range value, is the actual value.

Voltage type: 0-10V output  $(\text{maximum measuring range} - \text{minimum measuring range}) / 10 = \text{current device value} / (\text{current voltage value})$

\*\*\*\*\* current + minimum measurement range value, is the actual value.

Voltage type: 0-5V output (maximum measuring range - minimum measuring range) / 5 = current device value / (current voltage value)

Current minimum measurement range

## 7. Precautions

1. Please check the packaging is intact, and check the transmitter model and specifications are consistent with your purchase of the product; if any questions please contact me as soon as possible.

2. before use, please confirm: the power output voltage is correct; power positive and negative and the product is positive and negative wiring; and read the product brochures or consult our company. Any errors in the wiring can cause irreversible damage to the transmitter.

3. Users may not use their own demolition, but can not touch the sensor core, so as to avoid damage to the product.

4. Avoid the heat transfer and will directly cause the temperature difference between the area to be installed, otherwise it can cause the temperature and humidity measurement error.

5. Install in the environment is relatively stable area, to avoid direct light, away from the window and tune, heating and other equipment, to avoid straight on the window, the door.
6. As far as possible away from the high-power interference equipment, so as to avoid the measurement is not accurate, such as frequency converter, motor, etc., installation, removal of the transmitter must first disconnect the power, the transmitter can enter the water can lead to irreversible changes
7. To prevent chemical reagents, oil, dust and other direct damage to the sensor, not in condensation, extreme temperature environment, long-term use, to prevent hot and cold shock.
8. After wiring, please carefully check to ensure that the wiring is correct, connected to 24VDC or 12VDC after the multimeter can be measured with the corresponding current, voltage, network output or relay output