

Three Cup Anemometer Analog Modbus Wind Speed Sensor

Model:RS-FSJT



Description:

RS-FS-N01 wind speed sensor, compact and lightweight, easy to carry and assemble, design cups can be efficiently obtaining information about the wind speed, high-quality aluminum alloy housing, external spray plating process, has good anti-corrosion, anti- Erosion and other characteristics, to ensure long-term use of the transmitter without rust phenomenon, at the same time with the internal smooth bearing system to ensure the accuracy of information collection.

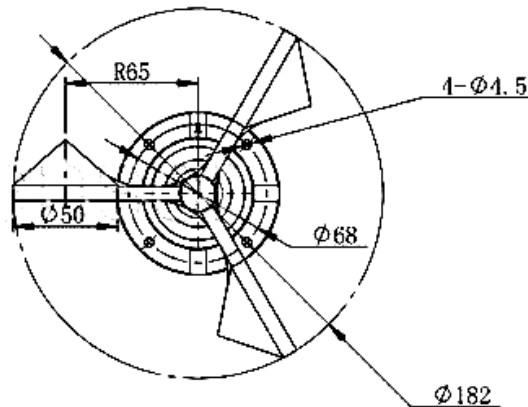
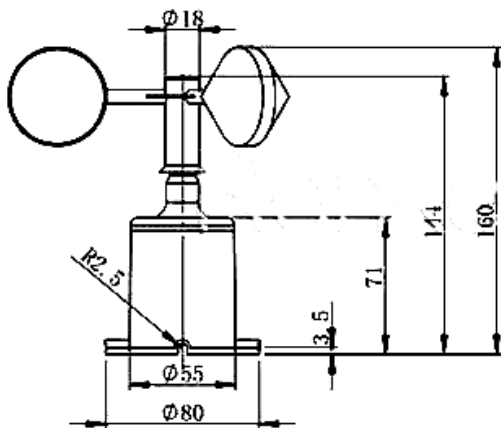
Specifications:

Module	Wind speed sensor
Power Supply	10 ~ 30V DC
Measuring Range	0 ~ 60m / s
Accuracy	± (0.2+0.03V) m/s
Resolution	0.1 m / s
Power Consumption	0.4W
Response Time	≤ 0.5s
Start Wind Speed	≤ 0.2m / s
Working Temperature	-20°C~+60°C, 0%RH~80%RH
Output Signal	RS485/4-20ma/0-5v/0-10v/Pulse

WIND SPEED SENSOR



- Polycarbon shell: light weight and corrosion resistant
- Range: 0-60m/s, resolution 0.1m/s
- Anti-electromagnetic interference
- Sweden bearing





Detailed Images:

1. Range: 0- 70m / s, the resolution of 0.1m / s
2. Anti - electromagnetic interference treatment
3. Using the bottom of the outlet way, completely Du air plug rubber pad aging problem, long-term use is still waterproof
4. The use of high-performance imported bearings, rotating resistance is small, accurate measurement
5. Waterproof case, mechanical strength, high hardness, corrosion resistance, long-term use in outdoor rust
6. Equipment structure and weight have been carefully designed and distributed, the inertia is small, responsive
7. Pulse, Analog or ModBus-RTU standard communication



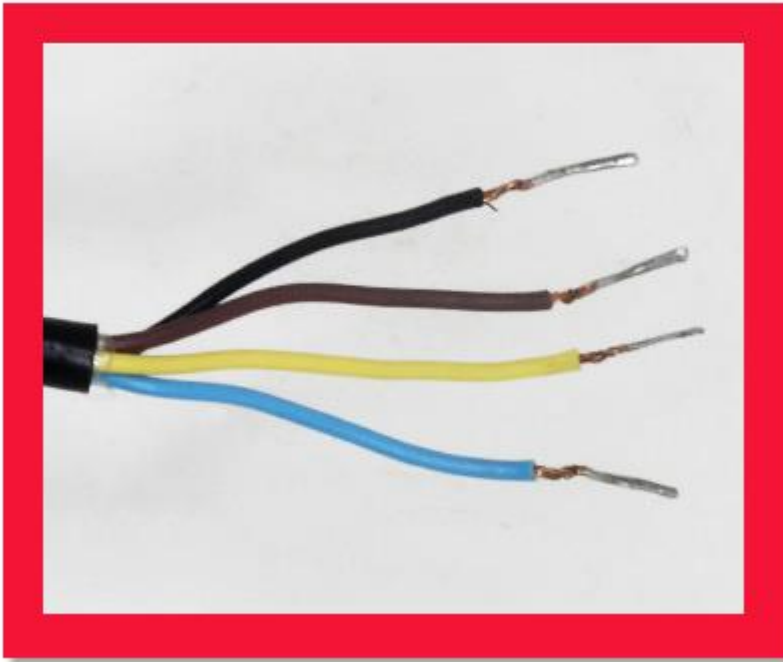
Anti - corrosion design

**Stable bottom mounting
hole design**

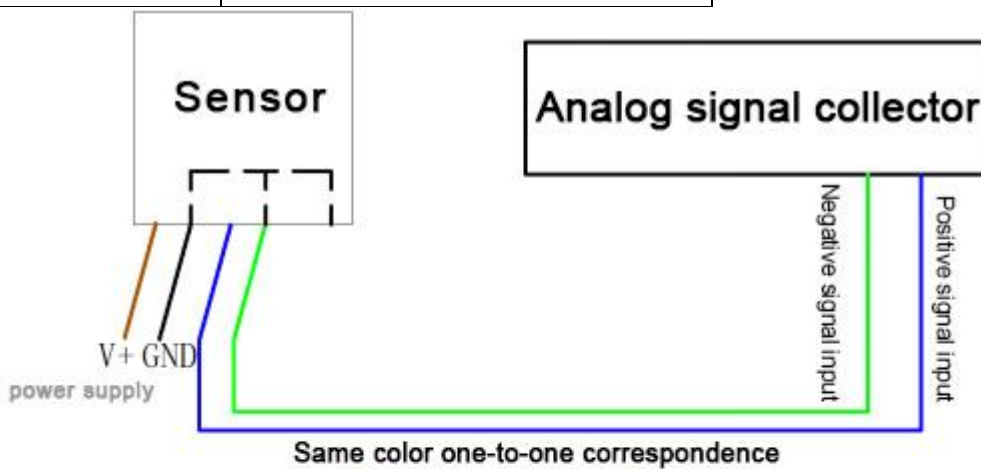


Bottom outlet design

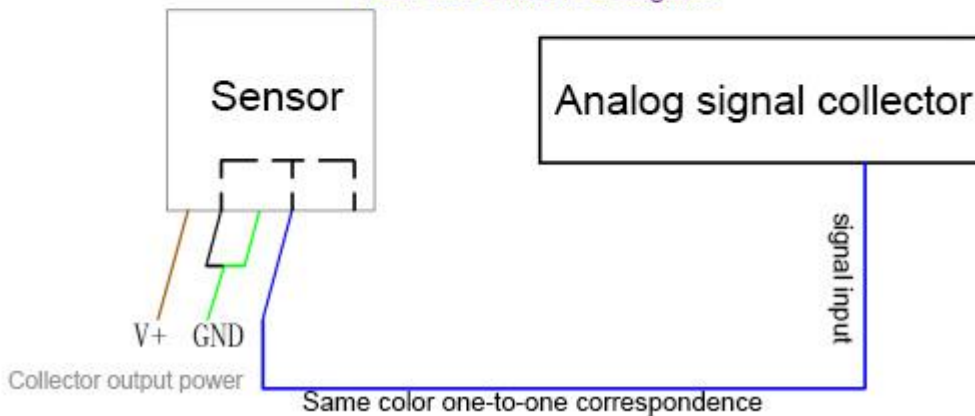
Electrical Wiring



RS485 OUTPUT	
Line color	RS485 Description
brown	Positive power supply
black	Negative power supply
yellow	485 -A
blue	485 -B



Four-wire connection diagram



Three-wire connection diagram

4-20ma, 0-5V, 0-10V OUTPUT		
	Line color	Description
power supply	brown	Power is positive
	black	Negative power supply
Output	Blue	Wind speed signal is positive
	Green	Wind speed signal negative
NOTE: Two types wire methods 1.Four-wire connection diagram 2.Three-wire connection diagram		

Calculation Method:

Wind Speed Sensor

1 Calculation current mode outputs the converted signal Range 0 ~ 30m / s, 4 ~ 20mA output when the output signal is 12mA, the current wind speed is calculated. Winds range span of 30m / s, to express 16mA current signal, $30m / s / 16mA = 1.875m / s / mA$, i.e., the current wind speed variations 1mA 1.875m / s. So the measured values can be measured Calcd 12mA-4mA = 8mA. $8mA * 1.875m / s / mA = 15m / s$, the current wind speed = 15m / s.

2 voltage-converts the output signal calculation Range 0 ~ 30m / s, 0-10V output to an example, when the output signal of 5V, the current wind speed is calculated. Winds range span of 30m / s, with a 10V voltage signal expression, $30m / s / 10V = 3m / s / V$, i.e., the voltagecorresponding to the wind speed change by 1V 3m / s. Measurement 5V-0V = 5V. $5V * 3 / m / s / V = 15m / s$. The current wind speed is 15m / s.





Made in China