Heated Wind Speed and Direction Integrated Sensor

Product model: FST200-205A

Firstrate

This integrated wind speed and direction sensor is used to measure wind speed and wind direction values and convert them into electrical signals. This signal can be directly transmitted to the recording device for processing.

The sensor housing is made of aluminum alloy material and uses a special mold precision die-casting process. The dimensional tolerance is very small and the surface precision is very high. It also has high weather resistance, high strength, anti-corrosion and waterproof properties; the internal circuits have been protected, and the entire sensor has Very good adaptability to harsh environments. The cable connector is a military plug, which has good anti-corrosion and anti-erosion properties, ensuring long-term use of the instrument. At the same time, it cooperates with the internal imported bearing system to ensure the accuracy of wind speed and wind direction collection.

The circuit module PCB is made of military-grade A-grade materials to ensure the stability of parameters and the quality of electrical performance; the electronic components are all made of imported industrial-grade chips, which makes the whole body extremely reliable in anti-electromagnetic interference and can ensure that the host operates at -20℃~+ It can work normally within the range of 85℃.

◆ Features

- ☑ Small size, easy to carry, simple to install, and beautiful appearance
- ☑ Has strong corrosion resistance and weather resistance
- ☑ High measurement accuracy, wide measuring range and good stability
- ☑ Low power consumption, strong anti-interference ability, and long-term stable operation
- ☑ The power supply has a wide adaptable range, good linearity of data information, and long signal transmission distance.

◆ Scope of application

- ◇ This product can measure indoor and outdoor environments in sixteen directions including the east, west, south, north, southeast, southwest, northeast, and northwest. It can be widely used in the fields of engineering machinery (cranes, crawler cranes, gantry cranes, tower cranes, etc.), railways, Wind speed and direction measurement in ports, docks, power plants, meteorology, cableways, environment, greenhouses, breeding, air conditioning, energy-saving monitoring, agriculture, medical care, clean spaces, PV Tracking Bracket and other fields.
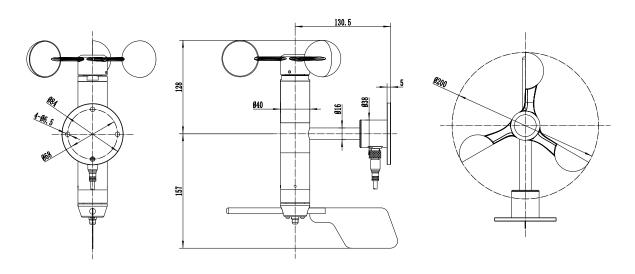
◆ Technical parameter

Digital	RS485 (Modbus RTU)	Operating temperature	-20~85℃
Power supply	DC10~30V	Protection level	IP65
Measuring range	Wind speed: 0-50m/s, wind direction: 16 directions (0-360 degrees)		
Accuracy	Wind speed: ±0.5m/s (<5m/s), ±3%FS (≥5m/s); wind direction: ±3 degrees, resolution 22.5°		
Maximum power consumption (DC24V)	RS485 type MAX≤300mW		
Start the wind	≥Level 1 wind	Heating power	60W

◆ Technical parameter

Output form	M12 pin	Thread Color	Definition
RS485 type output	1	Brown	+Vcc
	2	White	RS485A
	3	Blue	GND/Heating-
	4	Black	RS485B
	5	Ash	Heating+