

## FST200-201 Auto-Varme, Vindhastighed

0 til 10Vdc = 50m/sek

Med 10m ledning og stik.



### Introduction

F200-201 wind speed sensor is a high-reliability, high-performance wind measurement sensors, It is with heated de-icing capability. The relationship between electrical signal and the environmental wind speed output is linear, It is built-in strong anti-radio, anti-electromagnetic interference and anti-lightning surge protection circuitry circuit.

It is applied to test wind speed in aerial work platform, engineering machinery, port machinery and other and other industry. It adapts to harsh and low temperature environment .The main structure is made of alloy material and is surface treated with good waterproof, anti-corrosion capability. Its internal and rotating components are sealed design that can effectively prevent water, salt spray and dust and other intrusion.

### Product Features

- ◇ Non-contact magnetic sensor measuring principle, high accuracy and reliability;
- ◇ strong wind resistance, strong corrosion resistance;
- ◇ Wide wind speed measurement range, with low starting wind speed;
- ◇ Compact design, automatic heating , low temperature defrosting;
- ◇ Sensor circuit protection with fault-tolerant capability;
- ◇ Meet CE EMC standard, multi-levels for anti-lightning anti-surge design

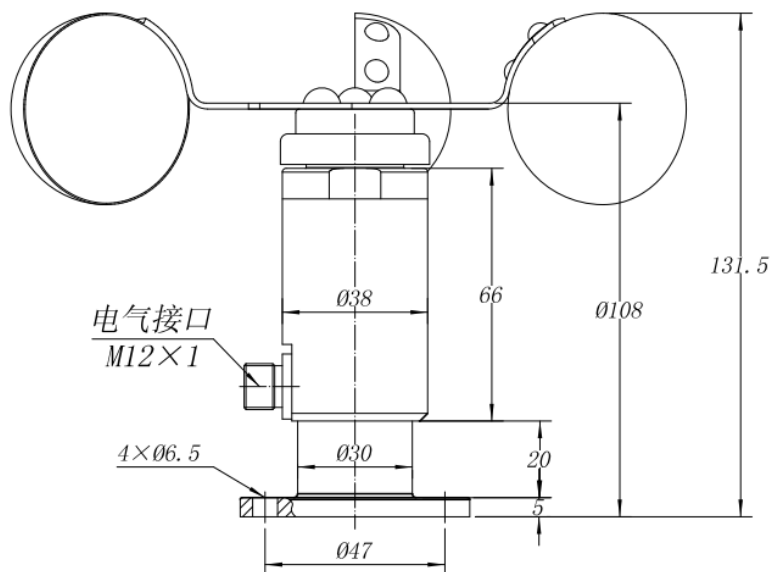
### Application Fields

- ◇ wind speed monitoring in frigid, high moisture, easy to freeze factories, power plants, ports, mines,
- ◇ wind speed monitoring in wind turbines, large machinery and equipment

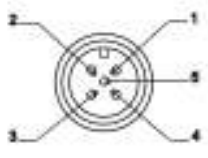
## Main Technical Parameters

Project	Parameters				
Technical Index	Supply Voltage	12~30VDC C	12~30VDC	15~30VDC	5VDC or 24VDC
	Signal output	4~20mA	0~5V	0~10V	Pulse output
	Start wind speed	≤0.5m/s		Testing range	0.5~50m/s
	Accuracy	±0.5 m/s (<5m/s) ±3 %FS (≥5m/s)		Anti-Wind strength	>70 m/s
	Surge protection	EMC III 级		Protection rate	IP55
	Working temperature	-40℃~+85℃		Electrostatic protection	15KV
	Heat ways	PTC Auto-heated		Humidity	0%~95%(Non-condensing)
	Heat power	DC24V		Wind cup material	Stainless steel 304
	Heat Power	<50W		Main	Aluminum / polyester coating

## Dimensions



### Electrical connection and wiring

M12 connector	Signal output	No.	Wiring method	
	current/voltage/pulse (optional)	1	+Vcc (positive power )	Brown
		2	+Signal out	White
		3	GND ( negative power )	Blue
		4	Heat 24V+ (Heating positive power)	Black
		5	Heat 24V- (Heating negative power)	Gray

### Installation Instructions

◇The sensor is installed horizontally as shown in the figure, and the angle between the mounting base and the horizontal plane should not exceed 5° so as to ensure that the wind speed can be measured accurately by the sensor under low wind speed conditions.

◇The positions and shapes of the wind cup and the windmill arm can directly affect the accuracy of the sensor as shown in the above figure. Do not hold the wind cup and the windmill arm during installation, so as to avoid the damage to the sensor structure and the influence on the accuracy of measurement.