

Cup wind speed sensor

Model ES-W200H



Introduction

ES-W200H wind speed sensor measures the current wind speed and converts it into a non-contact linear signal. The sensor is windproof and rainproof. After installing an automatically controlled heating device, it can be used at temperatures as low as -40°C. It is evaluated using measuring equipment, display instruments, or connected control and monitoring systems.

Working principle:

When the wind cup rotates, it drives the coaxial magnetic induction device to rotate. Through the circuit, a pulse signal proportional to the rotational speed of the wind cup is obtained. This pulse signal is counted by a counter and, after conversion, the actual wind speed value can be obtained.

Main features

- Aerospace-grade materials
- High durability and corrosion resistance
- Imported bearings
- High precision and high rotational speed
- IP66 waterproof rating
- Tower-style structural design; dustproof and sealed
- High-quality shielded cabling with superior interference resistance
- Electronically regulated heating to optimize energy consumption
- Extended operating temperature range

Compliance

The electromagnetic compatibility in accordance with the following applicable directives:

LVD 2014/35/EU Low Voltage

EMC 2014/30/EU

Electromagnetic Compatibility

EMC 2014/35/EU

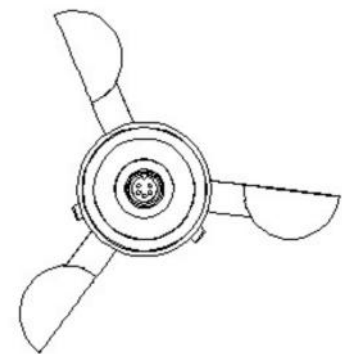
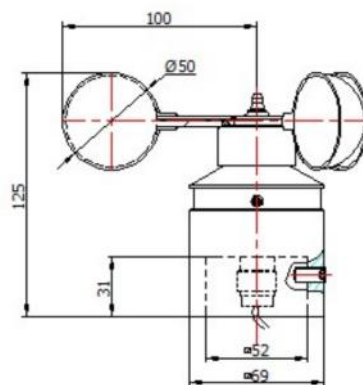
Electromagnetic Compatibility

Application

It is widely used in the fields of construction machinery (cranes, crawler cranes, gantry cranes, tower cranes, etc.), as well as wind speed measurement in fields such as railways, ports, docks, power plants, meteorology, cableways, environment, aquaculture, air conditioning, energy-saving monitoring, agriculture, etc.

Dimension

Unit:mm



Bottom view aviation plug (male)

Specification

Measurement Principle	Non-contact, magnetic scanning system
Power supply	DC12~24V
Measurement Range	0-75m/s
Accuracy	±0.3 m/s (VL ≤ 20 m/s); 3% of wind speed (VL > 20 m/s)
Resolution	<0.1m/s
Signal output	RS485
Power consumption	10mA
Starting Wind Speed	<0.5m/s
Protection Rating	IP65
Material	Full body aerospace aluminum + tri-proof coating
Corrosion resistance	Anti seawater corrosion alloy
Surge Protection	Yes

Order guide

ES-W200H	Wind Speed Sensor			
	CODE	Range		
	A	0~60m/S		
	B	0~75m/S		
		CODE	Signal output	
		1	4~20mA	
		2	0-10V, 0-5V	
		3	SDI-12	
		4	RS485	
		5	Pulse output	
			Y	With heating function
			N	Without heating function
ES-W200H	A	1	N	Order example