WSD304 WIND SPEED & DIRECTION SENSOR

MAIN FEATURES

- Small size, easy to carry and easy to install.
- It has strong corrosion resistance and weather resistance.
- The measurement accuracy is high, the measuring range is wide, and the stability is good.
- Low power consumption, long-term stable work.
- The power supply has a wide adaptable range, good linearity of data information, and long signal transmission distance.

OVERVIEW

WSD304 three cup type wind speed & direction sensor is a wind speed & direction mechanical measuring instrument independently developed and produced by our company. This product is composed of shell, wind cup and circuit module, with internal integrated photoelectric conversion mechanism, industrial microcomputer processor, standard current generator, current driver, etc.

The circuit PCB is made of military grade a material, which ensures the stability of parameters and the quality of electrical performance; the electronic components are made of imported industrial grade chips, which makes the whole circuit have extremely reliable anti electromagnetic interference ability.

APPLICATION

This product is widely used in greenhouse, environmental protection, meteorological station, engineering machinery, ships, docks, aquaculture and other environmental wind speed measurement.

SPECIFICATION

Measurement parameters	Wind speed, wind level, wind direction, wind direction angle
Output signal	A: Voltage signal (0~2V, 0~5V, 0~10V three options-) B: 4~20mA (current loop) C: RS485 (standard Modbus-RTU protocol, device default address: 01) D: Wireless signal (4G, NB-IOT, WIFI, LORA) E: Ethernet communication ①Network port UDP (standard Modbus-RTU protocol) ②Network port TCP (standard Modbus-TCP protocol) ③Cloud platform agreement (data can be uploaded to the cloud platform)
Supply voltage	5~24V DC (when the output signal is 0~2V, RS485) 12~24V DC (when the output signal is 0~5V, 0~10V, 4~20mA)
Heating supply voltage	12~24V DC
Heating power	Wind speed: 0~30m/s, 0~50m/s, 0~60m/s (other ranges can be customized) Wind direction: 0~360°
Starting wind speed	≤0.3m/s
Measurement accuracy	Wind speed: ±(0.3+0.03)m/s; wind direction: ±1°
Resolution	Wind speed: 0.1m/s; wind direction: 0.1°
Cable specification	2m 3-wire system (analog signal); 2m 4-wire system (RS485) (optional cable length)
Material	Aluminum alloy, ABS
Heating mothod	PTC automatic heating (only for heating model)

DIMENSION

225mm
φ54mm
105mm
228mm
φ220mm

ORDER CODE

WSD304	Wind speed, wind level, wind direction, wind direction angle Sensor		
	CODE	Range	
	A	0~30m/S	
	B	0~50m/S	
	C	0~60m/S	
		CODE	Signal output
		1	4~20mA
		2	0-10V
		3	0-5V
		4	RS485
		5	Wireless type
WSD304	A	1	Order example

APPLICATION

Water Meteorology

Wind power

Bridge tunnel

Aviation airport