

WS303U Compact ultrasonic wind speed and direction transmitter

MAIN FEATURES

- Using the transmitted acoustic pulse, the phase difference of the receiver is measured to calculate the wind speed and direction, and the wind speed and direction data are measured and output at the same time.
- It is made of ABS engineering plastics, with small wear and long service life.
- The random error identification technology can ensure the low discrete error of measurement under strong wind, and make the output more stable without on-site calibration.
- 485 communication interface, standard Modbus RTU communication protocol, communication address and baud rate can be set, the farthest communication distance is 2000 meters.



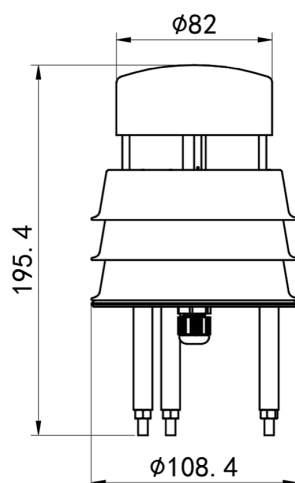
OVERVIEW

WS303U compact ultrasonic wind speed and direction sensor is a wind speed and direction measuring instrument developed by our company based on ultrasonic principle, which can simultaneously measure the instantaneous value of wind speed and direction.

SPECIFICATION

| | | |
|---------------------|---|--|
| Supply voltage | 10-30V DC (0-10V output is powered by 24 V) | |
| Power consumption | 485: 0.12W 4~20mA/0~5V/0~10V: 1.2W | |
| Range | Wind speed | 0 ~ 40m / S (customizable) 0.5m starting wind speed |
| | Wind direction | 0~360° |
| Accuracy | Wind speed | ±0.5+2%FS |
| | Wind direction | ±3° |
| Resolution | Wind speed | 0.01 m/s |
| | Wind direction | 1° |
| Working environment | -40~80°C, 0~95%RH | |
| Wind resistance | 75 m/s | |
| Response time | 1S | |
| IP grade | 485 type: IP65 Analog type: IP54 | |
| Signal output | 485 (Modbus RTU protocol) 4 ~ 20mA current output 0 ~ 5V voltage output 0 ~ 10V voltage output | |

DIMENSION



ORDER CODE

| WS303U | Ultrasonic Wind Speed & Direction Sensor | | |
|--------|--|--------------------------------|---------------|
| | CODE | Function type | |
| | A | No built-in electronic compass | |
| | B | Built-in electronic compass | |
| | | CODE | Signal output |
| | | 1 | 4~20mA |
| | | 2 | 0-10V |
| | | 3 | 0-5V |
| | | 4 | RS485 |
| WS303U | A | 1 | Order example |

APPLICATION

