

**WS302 Mini Anemometer**

**MAIN FEATURES**

- Maintenance-free, long service life
- No moving parts, zero wear
- Using ultrasonic probe reflection type, more compact structure
- Using sound wave phase compensation technology, higher accuracy


**OVERVIEW**

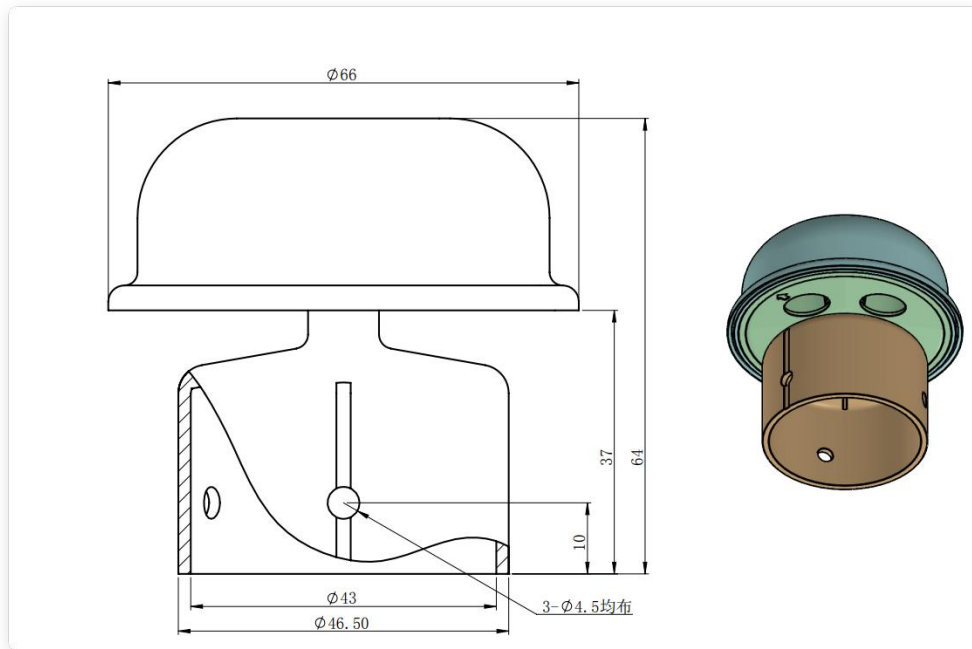
The WS302 anemometer uses ultrasonic resonance to measure wind speed and direction. The anemometer is very small, weighs only 89g and has a diameter of only 66mm. It uses a low-power chip inside, with a power consumption of only 0.08W at low power consumption. The shell of the ultrasonic anemometer is made of ASA material, which is corrosion-resistant and does not change color. The protection level can be increased to IP68, which is suitable for all-weather work in various geographical and natural environments.

The WS302 ultrasonic anemometer is small, easy to install and simple to use, meeting the personalized needs of the majority of users.

**SPECIFICATION**

|                  |  |  |
|------------------|--|--|
| Wind speed       | Range                                  | 0 - 60m/s (customizable 0 - 75m/s )    |
|                  | Accuracy                               | ±4%                                    |
|                  | Resolution                             | 0.1m/s                                 |
|                  | Unit                                   | m/s,km/h,knots,mph,ft/min (selectable) |
| Wind direction   | Measure Range                          | 0-359°                                 |
|                  | Accuracy                               | ±4°                                    |
|                  | Resolution                             | 1°                                     |
| Digital output   | Interface                              | RS232/RS485/SDI-12                     |
|                  | Baud rate                              | 9600(default),4800-19200(configurable) |
|                  | Protocol                               | ModBus-RTU/NMEA 0183/SDI-12            |
| Bluetooth output | BLE Bluetooth 5.1 (optional)           |  |
| Protection grade | IP65 default (up to IP68 customizable) |  |
| Operating Temp.  | -40°C ~ +70°C                          |  |
| Humidity         | 0 - 100%                               |  |
| Power supply     | DC 5~12V DC                            |  |
| Consumption      | 0.02W                                  |  |
| Size/Weight      | Φ66×64mm                               |  |
| Body material    | ASA                                    |  |

**DIMENSION & INSTALLATION**



**ORDER CODE**

| WS302 | Ultrasonic Wind Speed & Direction Sensor |                             |                              |
|-------|--|-----------------------------|------------------------------|
|       | <b>CODE</b>                              | Function type               |                              |
|       | <b>A</b>                                 | Wind speed + wind direction |                              |
|       | <b>C</b>                                 | Customized functions        |                              |
|       |  | <b>CODE</b>                 | Signal output                |
|       |  | <b>1</b>                    | RS485                        |
|       |  | <b>2</b>                    | RS232                        |
|       |  | <b>3</b>                    | SDI-12                       |
|       |  | <b>4</b>                    | BLE Bluetooth 5.1 (optional) |
| WS302 | A  | 1                           | Order example                |

**Appendix**

| Version | Modify records    |
|---------|-------------------|
| V2502   | Document creation |
|         |                   |