# Ultrasonic Anemometer

**METEOROLOGICAL SENSOR DATASHEET**

**BHM-S-WSD-Ultra1** is an Ultrasonic Anemometer uses highly stable ultrasonic probes to simultaneously measure the 2-dimensional horizontal components of the wind speed and direction based on principle of TOF(time of flight) of ultrasonic sound wave. Power consumption is low to 20mA@12VDC. Stainless steel make it robust and anti-corrosive ASA and withstand all climatically conditions. It is widely used in the meteorological industry as well as various outdoor applications.

## SPECIFICATION - VIEW

| PROFESSINAL LINE | SPECIFICATION |
|---|---|
| **Model** | **BHM-S-WSD-Ultra1** |
| **Wind Speed** | 0 ~ 80 m/s |
| **Resolution** | 0.01 m/s |
| **Accuracy** | ± 2% |
| **Wind Direction** | 0 to 360° (Resolution: 1°, Accuracy: ± 3°) |
| **Interface** | RS232 or RS485 or 4-20mA |
| **Protocol** | ASCII active output, NMEA0183, MODBUS-RTU, SDI-12 |
| **Baud rate** | 1200, 4800, 9600, 19200, 38400 |
| **Wind Units** | m/s, knots, mph, kph, ft/min |
| **Power Requirement** | Sensor : 20 mA @ 7-30 VDC typical |
| **Heater** | Automatic ON/OFF at 0℃ (400mA@24V) |
| **Environmental** | Operating Temperature : -50 ~ +70°C |
| **Protection Class** | IP65 |
| **Material** | Stainless steel |
| **Dimensions** | Φ228×285mm |
| **Weight** | 1.1 kg (Shipping Weight : 5 kg) |
| **Data Output** | Instantaneous, average, max, min and gust wind data are available. |

## APPLICATION - VIEW

- Weather observation
- Ports and harbour
- Emergency services
- Coastal and ocean buoys
- Agriculture and horticulture
- Environmental monitoring
- Crane safety alarm
- Photovoltaic plant

## IMAGE - VIEW

Representative