

WIND SPEED AND DIRECTION (Ultrasonic)



Ultrasonic Anemometers

A robust and reliable ultrasonic anemometer to measure horizontal wind speed and direction, which is mainly used in the following situations: Wind Energy, Electric power safety monitoring, Port wharf, Meteorological monitoring, Bridge and Tunnel, Sailing, Airport, Urban environment monitoring etc.



Features

- Aluminium/Teflon alloy construction
- Low power dissipation
- No moving parts and maintenance-free
- High accuracy
- Optional heating function
- Analog and Digital outputs
- IP66

Technical Specifications

	SS-UWS-01	SS-UWS-02
Output	Analog: 4 to 20 mA or 1 to 5V	Digital: RS-485(default), RS232/SDI-12/RS422(Optional)
Communication Protocol	-	RS232/SDI-12/RS422(Option) ASCII, Modbus, SDI-12, NMEA

Common Technical Specifications

Wind Speed	Principle	Ultrasonic
	Measurement range	0 to 60 m/s
	Accuracy	±0.3 m/s or 3% of reading, whichever is greater
	Resolution	0.1 m/s
Wind Direction	Principle	Ultrasonic
	Measurement range	0 to 359.9°
	Accuracy	±3°
	Resolution	0.1°
General Specifications	IP Class	IP66
	Dimensions (H x Φ)	195 mm x 160 mm
	Weight	1.1Kg
	Power	18mA @12V DC, 5A @ 24VDC (heating)
	Operating voltage	12 to 30 VDC
	Operating temperature	-40 to +70 °C
	Operating humidity	5% to 100% RH
Cable	5m Standard	