

Ultrasonic weather station

Model ES-W5004

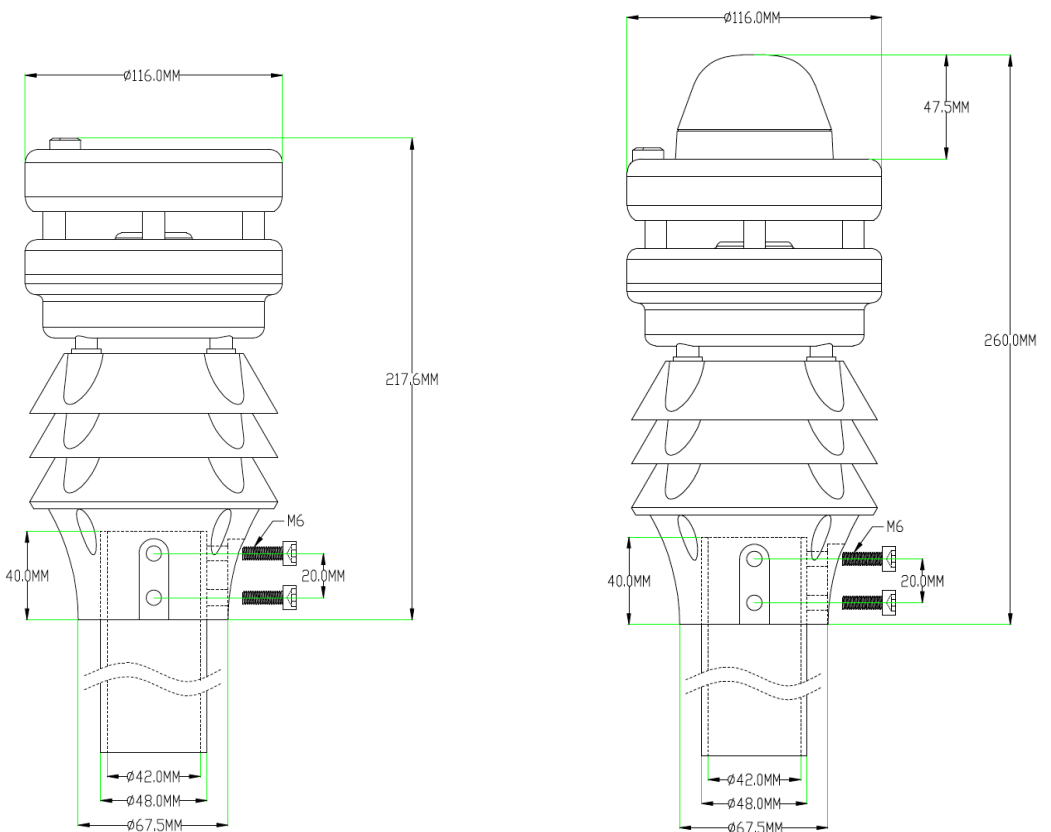


Introduction

ES-W5004 compact meteorological station is a multi parameter micro meteorological station independently developed by our company, which integrates atmospheric temperature, humidity, wind speed, wind direction, pressure, light, solar radiation rainfall and other parameters. It can be applied to the monitoring and control of urban grid environment, smart street lamps, environmental monitoring of scenic spots, agricultural meteorology, highway meteorology and other fields related to meteorological parameter monitoring. High cost performance.

Dimension

Unit:mm



Main features

- Miniaturization design
- High integration, all-in-one
- Modular, no moving parts
- Special process heat insulation treatment of protective cover
- Support extended parameter

Application

- Meteorological monitoring
- Micro environmental monitoring
- Grid environment monitoring
- Agrometeorological monitoring
- Traffic meteorological monitoring
- PV environmental monitoring

Specification

ITEMS	Range	Accuracy	Resolution	Sampling frequency
Wind speed	0-40m /s	± (0.5+0.05V) M/S	0.01m/s	10Hz
Wind direction	0-359.5°	± 5 ° (wind speed < 10M/S)	0.1°	10Hz
Air temperature	- 40 °C - + 85 °C	±0.3°C@25°C	0.01 °C	1Hz
Air Humidity	0-100%RH	± 3% RH (10% - 80% RH, no condensation)	0.01%RH	1Hz
Atmospheric pressure	500 -1100hPa	±0.5hPa (25°C, 950-1100hPa)	0.1hPa	1Hz
Noise*	30-130dB	±1.5dB	0.1dB	1Hz
PM2.5/PM10*	0-500ug/m ³ (expandable 1000ug/m ³)	± (10+10%) ug/m ³	1ug/m ³	1Hz
Illumination*	0-200KLux	±3% or 1%F.S	10Lux	1Hz
Solar radiation*	0-2000W/m²	±5%	1W	1Hz
Rainfall (Optical or Piezoelectric)*	0-200mm/h	Resolution: 0.2mm (optical), 0.1mm (piezoelectric)		1Hz
Working temperature	-30°C~70°C			
Output signal	Default RS485 interface, ModbusRTU; Customizable SDI-12			
Max. output frequency	Passive mode: 1/S Active mode: 1/min			
Power supply	DC9-24V			
Protection level	IP65 or customized			
Fixing method	Default fixed by sleeve (Flange fixing or bending plate fixing optional)			
Fixing bracket	None for standard products, 1.5m and 1.8m brackets are optional			
Cable	Default 3m cable (other length optional)			

Order guide

ES-W5004	Ultrasonic weather station		
	CODE	Function type	
	XXXXXX	W1= wind speed W2 = wind direction R = rainfall N=Noise	T= temperature H = humidity L =Luminance A= atmospheric pressure S1 = Solar radiation P=PM2.5/PM10
		CODE	Signal output
		1	RS232
		2	RS485
		3	SDI-12
ES-W5004	W1W2THA	2	Order example