

Ultrasonic weather station

Model ES-W5006



Introduction

ES-W5006 integrated weather station is an instrument used for meteorological parameter monitoring in various fields. Through its highly integrated structure, it can realize 24-hour continuous online monitoring of outdoor meteorological parameters such as atmospheric temperature, humidity, wind speed, wind direction, air pressure, illumination, solar radiation, rainfall, PM2.5, PM10, noise, carbon monoxide, nitrogen dioxide, sulfur dioxide, ozone and other parameters, and output multiple parameters to users at one time through the digital communication interface.

Dimension

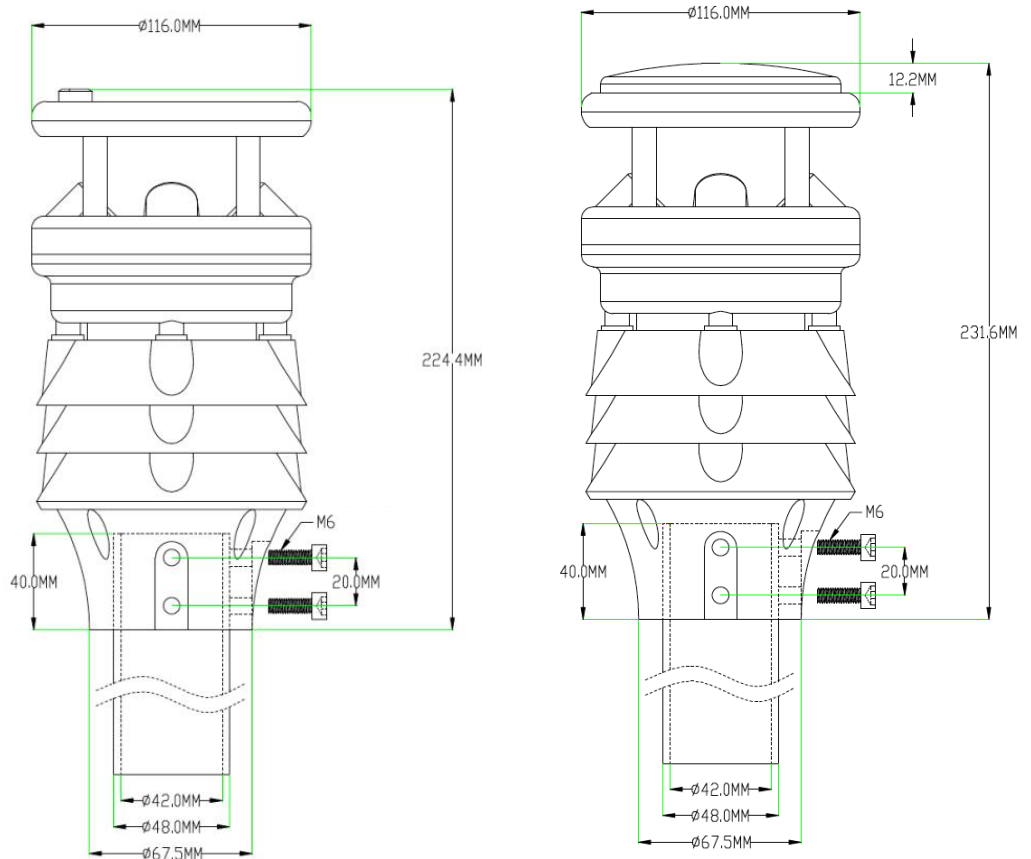
Unit:mm

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	0-60m /s	± (0.3+0.03V) M/S	0.01m/s	4Hz
Wind direction	0-359.5°	± 5 ° (wind speed < 10M/S)	0.1°	4Hz
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/m ²	±5%	1W	1Hz
Rainfall (Optical or Piezoelectric)*	0-200mm/h	Resolution: 0.2mm (optical), 0.1mm (piezoelectric)		1Hz
Optional gas functions*	CO,NO2,SO2,O3,H2S,TVOC			
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-W5006	Ultrasonic weather station		
	CODE	Function type	
	XXXXX	W1= wind speed W2 = wind direction R = rainfall N=Noise	T= temperature H = humidity L =Luminance G=Optional gas function remark in details
		CODE	Signal output
		1	RS232
		2	RS485
		3	SDI-12
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