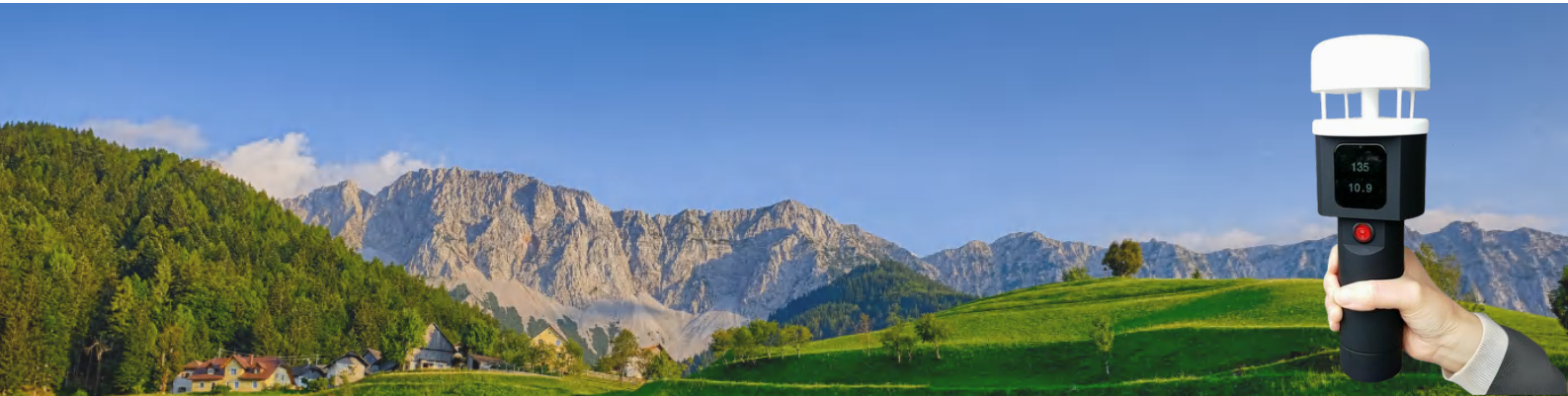


Handheld weather station

Model ES-W4000



Main features

- No moving parts, zero wear
- Maintenance-free, long service life
- Using ultrasonic probe reflection type, more compact structure
- Internally powered by a removable standard 18650 rechargeable lithium battery
- Optional temperature, humidity and atmospheric pressure sensors
- Built-in Bluetooth transmission module

Application

- Handheld meteorological multi-factor detection
- Mobile inspection
- Electric power safety inspection
- Ship, dock and navigation inspection
- Urban environmental monitoring

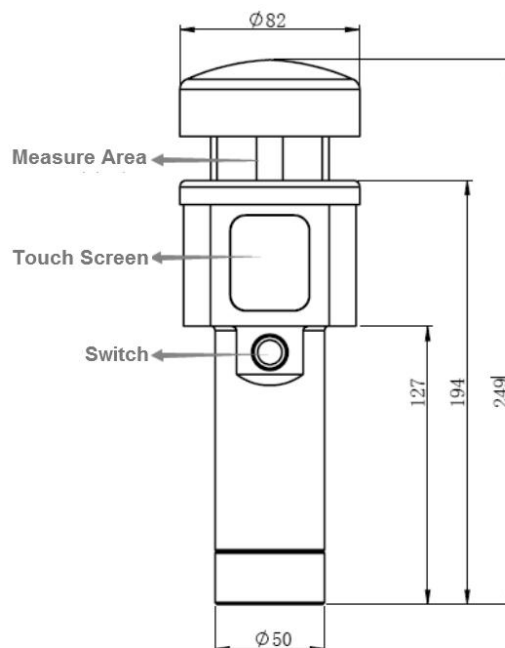
Introduction

ES-W4000 handheld micro weather station composed of several sensors to measure wind speed & direction based on ultrasonic sound wave travel time difference in air, it has optional temperature, humidity and air pressure sensors., and added modules such as handle, power supply, display, wireless data transmission module and software.

In view of the working requirements and environment of the handheld meteorological station, we have made special designs, such as adding a display screen to facilitate on-site observers to read data directly, and storing it in the internal chip, which can store up to 365 days of detection data. The dedicated APP software uses Bluetooth to transmit data, and receives detection data in real time on the mobile phone. At the same time, the data is uploaded and saved to the cloud server through the Internet of Things, and the user can view it at any time.

The specially designed handle (the handle is a full aluminum alloy structure) is light in weight and convenient for users to hold it with one hand. It is especially suitable for field inspections.

Dimension



Unit:mm

Specification

ITEMS	Principle	Range	Accuracy	Resolution
Wind speed	Ultrasonic	0-40m /s; 0-60m /s	± 2%	0.1m/s
Wind direction	Ultrasonic	0-359 °	±3 °	1 °
Temperature*	MEMS sensor	- 40 °C - + 80 °C	± 0.5°C	0.1 °C
Humidity*	MEMS sensor	0 – 100%	±5%	0.1
Atmospheric pressure*	MEMS sensor	300 – 1100hPa	±1hpa	0.1hPa
Longitude / Latitude *	GPS/ Beidou positioning coordinates			
Electronic compass *	Built-in 3D electronic compass and gravity accelerometer			
Altitude *	Average sea level			
Digital output	Bluetooth wireless transmission; wired transmission interface Micro USB			
Data Display	Mobile APP display software / IoT terminal display interface *			
LCD display	Touchscreen			
Data storage	Internal storage chip, can store up to 365 days of data			
Charging / data interface	Charging power adapter, output 5V-2A / Micro USB interface			
Power supply	18650 rechargeable lithium battery (one battery is included as standard)			
Battery working time	When fully charged (1 18650 lithium battery), it can work continuously for 30 hours			
IP protection	IP65			
Operating environment	-40°C - +70°C, 0 - 100%			
Material	ABS engineering plastic			
Dimension	Ø 45 * 133mm; Ø 82 * 249mm; Ø 144 * (280-349) mm			

Order guide

ES-W4000	Handheld ultrasonic weather station		
	CODE	Function type	
	XXXXX	W1= wind speed W2 = wind direction L=Longitude / Latitude	T= temperature H = humidity A2=Altitude A1= atmospheric pressure E=Electronic compass
		CODE	Signal output
		1	USB and Bluetooth
		2	-
ES-W4000	W1W2TH	1	Order example