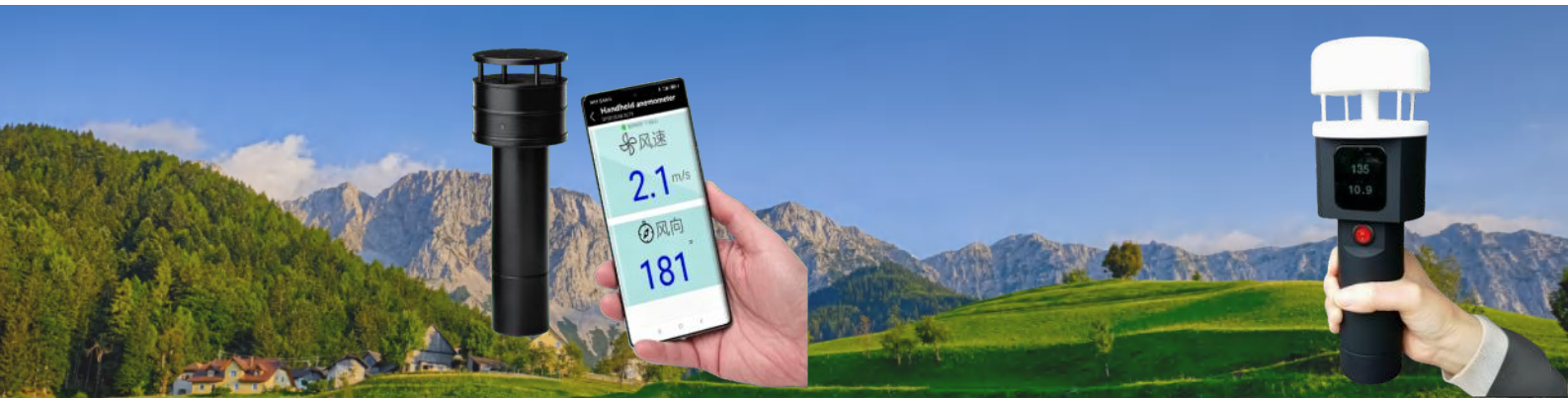


Handheld weather station

Model ES-WXXXP



Main features

- No moving parts; zero wear
- Maintenance-free with a long service life
- Compact design utilizing ultrasonic reflection-based sensing
- Powered by a detachable, standard 18650 rechargeable lithium battery
- Optional sensors available for temperature, humidity, air pressure, solar radiation, PM, etc.
- Built-in Bluetooth transmission module
- App-based data display interface

Application

- Handheld multi-parameter meteorological monitoring
- Mobile inspections
- Electrical safety inspections
- Marine, port, and maritime monitoring
- Urban ambient air quality inspections

Introduction

The ES-WXXXP series of handheld weather stations condenses laboratory-grade meteorological monitoring technology into a portable device. Integrating ultrasonic sensing, multi-module integration, and smart IoT technologies, the series incorporates a handle, power supply, display screen, wireless data transmission module, and software to enable the all-in-one, precise collection of meteorological data in outdoor environments.

Designed specifically for the operational needs and environmental conditions of handheld weather stations, the device features a display screen that allows on-site observers to read data directly; simultaneously, data is stored on a TF card, with a capacity to hold at least 365 days of readings. A dedicated app utilizes Bluetooth transmission to receive and display data on a smartphone in real time.

The specially designed handle—constructed entirely from aluminum alloy—is lightweight and allows for comfortable one-handed operation. Additionally, the unit can be mounted on a tripod via a threaded base, making it ideal for on-site spot checks.

Model types



ES-W3054P

ES-W4000P

ES-W6002P

ES-W9000P

ES-W6006P

Specification

Model	Parameters	ES-W3054P	ES-W4000P	ES-W6002P	ES-W9000P	ES-W6006P
Meteorological parameters	Wind speed	0-60m /s	0-40m /s	0-60m /s	0-40m /s	0-60m /s
	Wind force scale	Levels 1–12				
	Wind direction angle	0°–359°				
	Wind direction	East, South, West, North, Northeast, Southeast, Southwest, Northwest...				
	Temperature *	-40°C to +80°C				
	Humidity *	0–100%				
	Air pressure *	300–1100 hPa				
	Altitude *	Mean sea level				
	Illuminance *	-	0-200000lux			
	Radiation *	-	0-2000W/m2			
	UV index *	-	0-15			
	PM2.5/PM10 *	-	0-2000 µg/m³			
Positional parameters	Longitude/Latitude *	-	-	GPS/BeiDou	-	GPS/BeiDou
	Electronic Compass *	-	-	Electronic Compass	-	Electronic Compass
Standard parameters	Data transmission method	Bluetooth				
	Data display	Mobile app display (mobile phone not included)	Mobile App Display Software / 1.6-inch Round Touchscreen			
	Display screen	-	Touchscreen			
	Data storage	-	TF card			
	Charging/data port	Remove the battery to charge it separately.	Charging power adapter, output 5V/2A, Type-C port			
	Power requirements	One 18650 rechargeable lithium battery.	Three 18650 rechargeable lithium batteries (factory default includes 1 battery)			
	Battery runtime	When fully charged (using a single 18650 lithium battery), it can operate for up to 8 hours (depending on the number of meteorological parameters).				
	Dimensions	Ø45 * 133mm	Ø82 * 249mm	Ø144 * 260mm	Ø110 * 349mm	Ø144 * 349mm

Note: Parameters marked with an asterisk (*) are optional and can be selected according to requirements; the instrument height varies depending on the configuration.