

**ZOGLAB**

# HWS3000

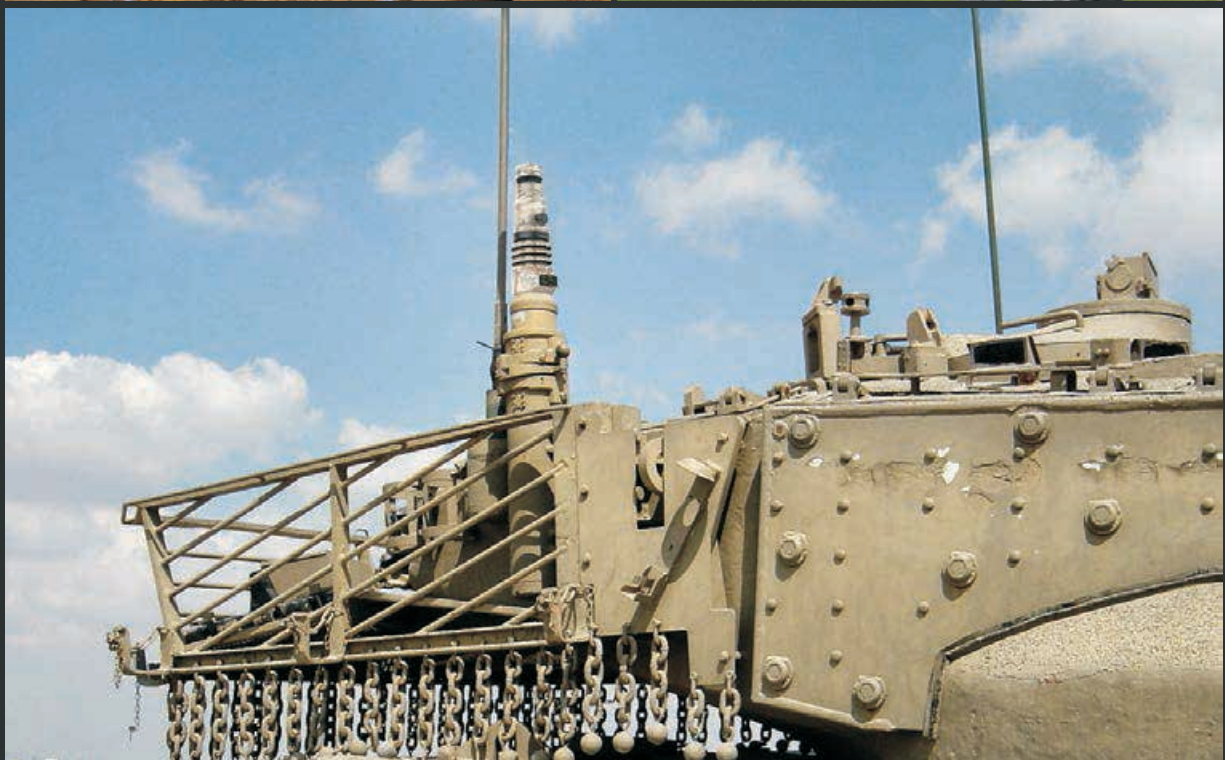
## Handheld Weather Station

- Fully fixed, robust and durable stick type design
- Measurement for temperature, humidity, pressure and wind
- Top ultrasonic resonant wind sensor in the market
- Built-in digital compass and accelerometer
- Support bluetooth and Wi-Fi wireless communication





# HWS3000



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## HANDHELD WEATHER STATION

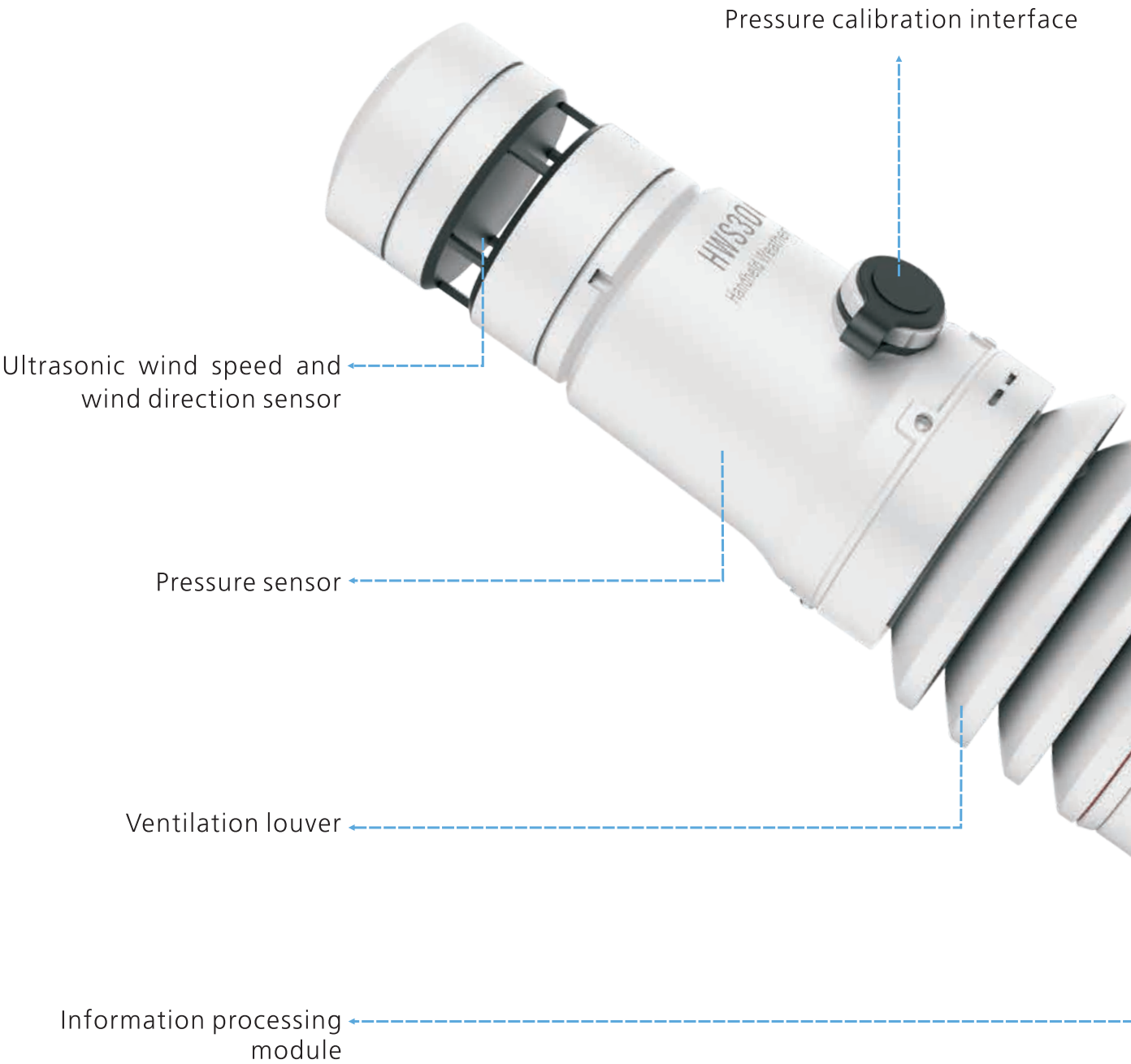
HWS3000 is a well-designed, portable and professional handheld weather station, supporting measurement of temperature, humidity, pressure, wind speed and wind direction. The design meets the strict requirement of ergonomics and aeronautical meteorology, adopting the concept of modular, fixed and digital sensor, creating the structure design on traditional automatic weather station, greatly improving its protective capacity and durability. High-strength uvioresistant ABS plastic alloy makes possible long-term exposure under solar radiation. Highly integrated electronic circuit design makes possible small size body contains several times of functions, making outdoor meteorological observation more convenient.

HWS3000 Handheld Weather Station is widely used in the meteorological observations of aviation & navigation, airdrop & air-landing, nuclear-chemical monitoring, transportation observation, emergency rescue, mobile meteorology, etc.

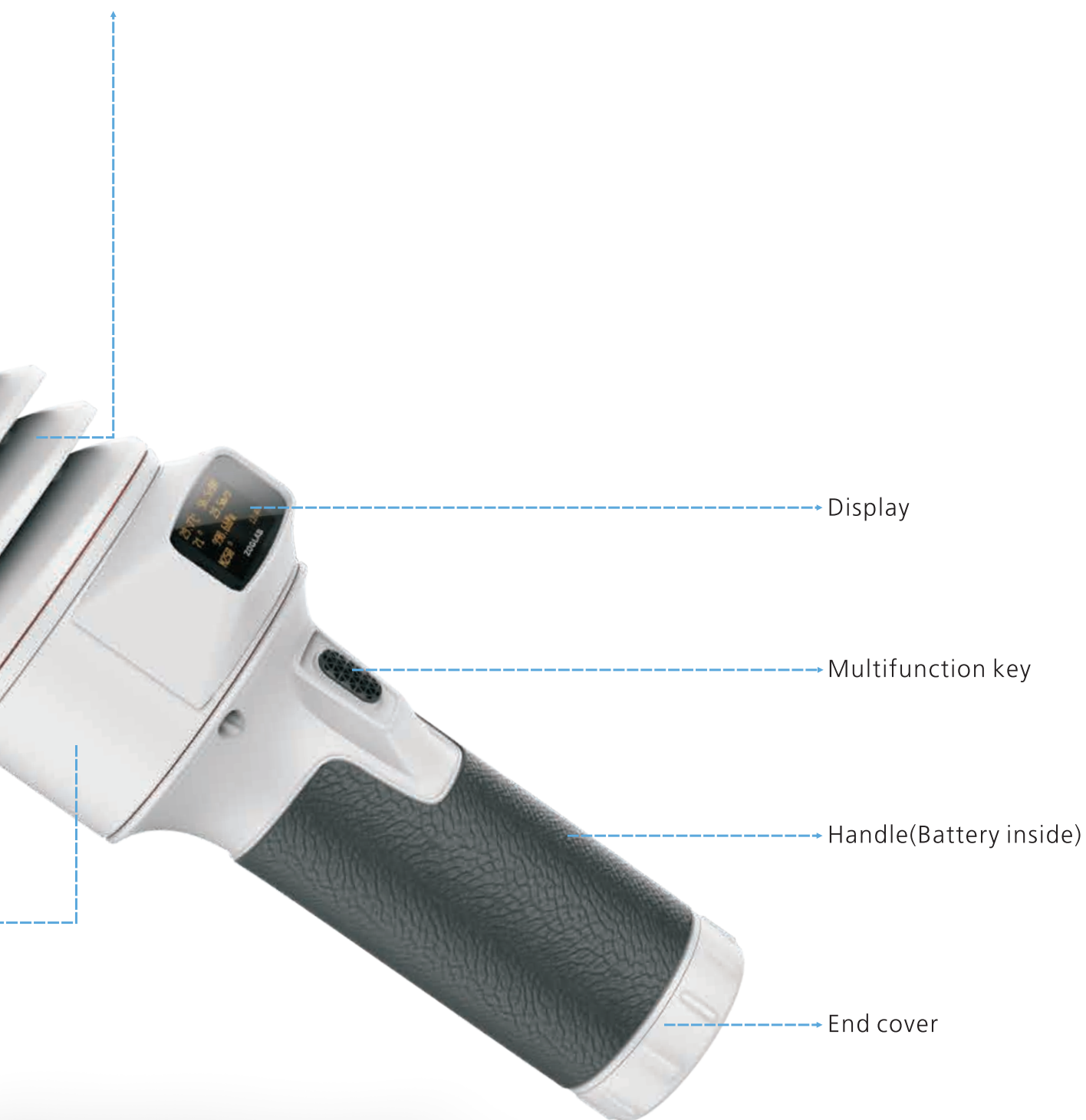
- Fully fixed, robust and durable stick type design
- Measurement for temperature, humidity, pressure and wind
- Top ultrasonic wind sensor with wide measuring range 0~50m/s
- Built-in digital compass and accelerometer, supporting auto north-seeking and horizontal measurement
- Support bluetooth and Wi-Fi wireless communication
- Unique water-proof and ventilated structure could face with different bad weather
- Pressure calibration via interface connection, easy for metrology traceability
- High-bright wind range OLED display, suitable for outdoor work
- Built-in 18650 lithium battery, supporting continuous work for 8 hours
- Compact design makes its weight only 1 KG



HWS3000 • Host Machine



Temperature and humidity sensor



## HWS3000 • Functions and Features



### Compact and portable

- Compact and portable, fully fixed stick type and superlight design
- Weight less than 1 KG



### Multiple elements measurement

- Measurement for temperature, humidity, pressure and wind
- Support measurement for more meteorological elements



### External Display

- Support robust wrist PDA
- Support APP application in mobile phone or tablet PC



### High-bright Display

- Wide temperature range and high-bright OLED display, suitable for outdoor work
- Support multiple elements display on one page





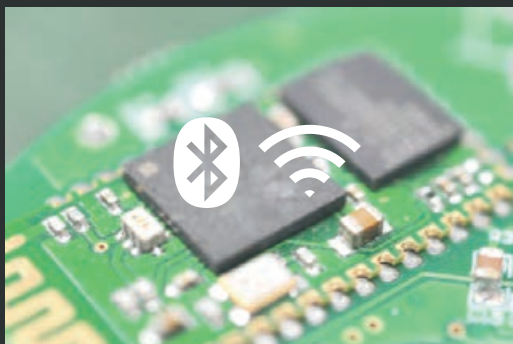
## Ultrasonic wind sensor

- Super compact ultrasonic resonant wind sensor
- Wind speed measuring range 0~50m/s
- Measuring accuracy  $\pm 0.5\text{m/s}$



## Water-proof air tap

- Unique water-proof pressure measuring structure
- Support pressure calibration via interface connection, easy for metrology traceability



## Wireless Communication

- Support bluetooth and Wi-Fi wireless communication(RF can turn off)
- Could support RS232/485 communication as requested



## Rechargeable Battery

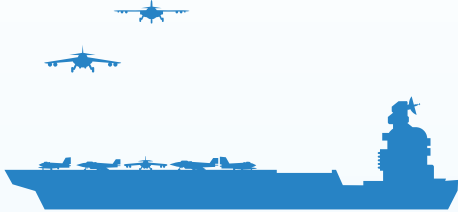
- Built-in 3 unit of 18650 lithium battery supports continuous work for 8 hours
- Modular battery design supports direct power charge

## HWS3000 • Applications



### Aviation & Navigation

HWS3000 supports convenient meteorology observation for aviation and navigation to a great extent via its function of portable multiple meteorological elements measurement, providing a more flexible maritime meteorology observation method for different ships; an new innovative mode for maritime meteorological sounding.

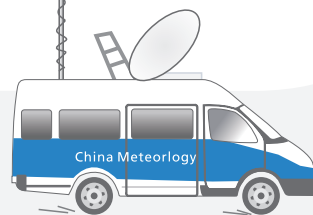
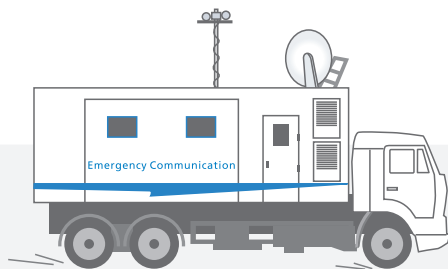
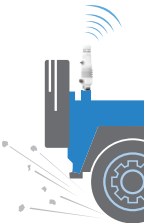
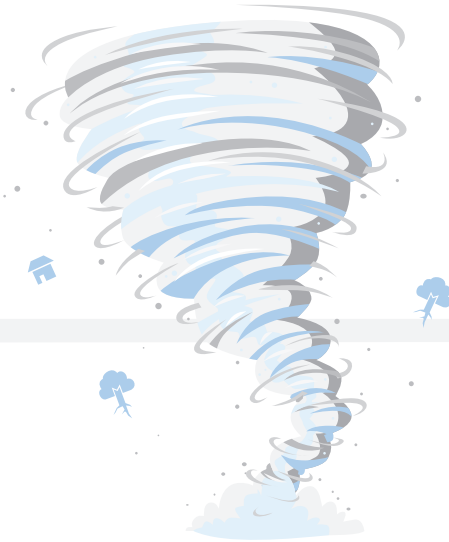


### Airdrop & Air-landing

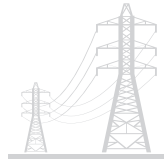
The success possibility of airdrop and air-landing is really close to meteorological conditions. HWS3000 could measure multiple meteorological elements quickly, especially the conditions of wind speed and wind direction in the target area, then a quick calculation could supports to conduct a quick respond according to its measured meteorological conditions.

### Emergency Rescue

HWS3000 is a one-stop solution for meteorology observation. It could be used for the field monitoring and instant network establishment for sudden disastrous weather, taking samples where meteorological emergency vehicle can not enter, providing an innovative method for meteorology observation for flood site, early warning and emergency rescue, etc.

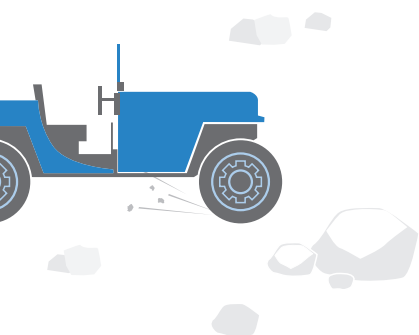
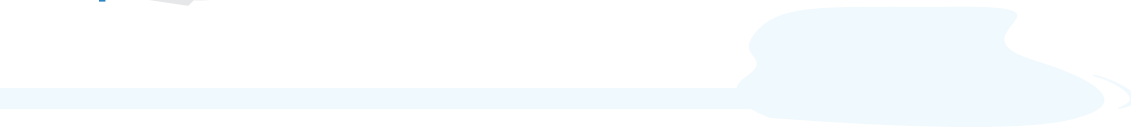






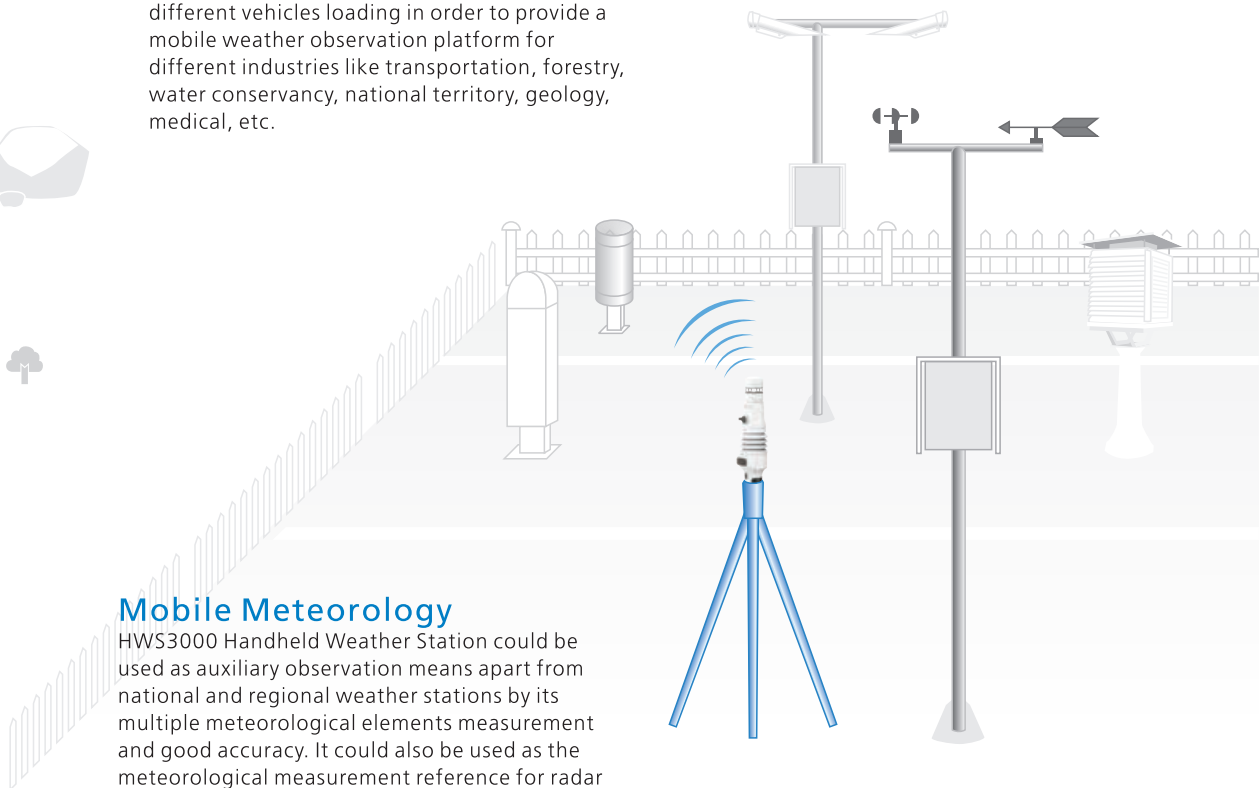
## Nuclear-chemical Monitoring

Meteorological monitoring plays an important role for the emergency evacuation of nuclear power plant and different chemical industry bases. HWS3000 is a robust and portable meteorological monitoring platform for single user, providing sufficient criterion for safety production and crisis management according to the on-site strong and effective meteorology observation.



## Transportation Observation

HWS3000 Handheld Weather Station could be equipped with quick dismounting devices for different vehicles loading in order to provide a mobile weather observation platform for different industries like transportation, forestry, water conservancy, national territory, geology, medical, etc.



## Mobile Meteorology

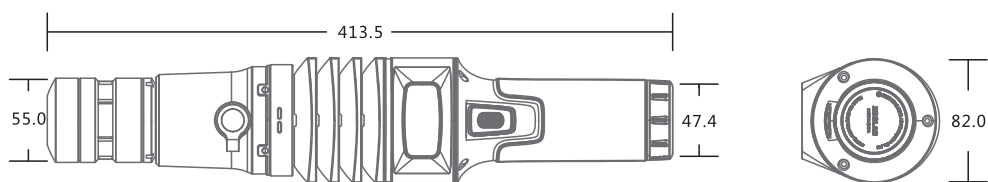
HWS3000 Handheld Weather Station could be used as auxiliary observation means apart from national and regional weather stations by its multiple meteorological elements measurement and good accuracy. It could also be used as the meteorological measurement reference for radar scanning, laser telemetry, microwave analysis, radiation detection, etc.

# HWS3000 • Technical Specification

Measuring Specification	
T measuring range	-30℃~50℃ , -40℃~70℃(Model AMY)
T measuring accuracy	±0.3℃ , ±0.2℃(5℃~35℃)
T resolution	0.1℃
RH measuring range	0%RH~100%RH
RH measuring accuracy	±3%RH (10%RH~90%RH)
	±5%RH(90%RH~100%RH)
RH resolution	0.1%RH
Pressure measuring range	300hPa~1100hPa
Pressure measuring accuracy	±0.3hPa(0℃~50℃) , ±0.5hPa(-30℃~0℃)
Pressure resolution	0.1hPa
Wind speed measuring range	0~50m/s
Wind speed measuring accuracy	±0.5m/s(0~15m/s) , ±4%(>15m/s)
Wind speed resolution	0.1m/s
Wind direction measuring range	0~360°
Wind direction measuring accuracy	±2°(≤±10°) , ±4°(>±10°)
Wind direction resolution	1°

General Specification	
Communication interface	RS232/485 , BT , Wi-Fi
Pressure calibration interface	Φ5 interface
Power supply	100~240VAC 1.3A , 50/60Hz
Battery	18650×3
Battery life	Continuous work for 8 hours
Working environment	-30℃~50℃ , 10%RH~95%RH(Non condensing)
Dimensions	Φ82.0×413.5 mm
Weight	1.0kg
Certificates	CE、FCC、VCCI、C-TICK

## Dimensions(mm)



## HWS3000 • Accessories

### Standard Accessories

Power adaptor



User's manual



CD



Calibration Certificate



Warranty card



Qualification



Maintenance manual



WEEE card



### Optional Accessories

PDA



MCK1000 multifunctional transport tube



MCK100 transport tube



APP for Android



### Ordering Information

Ordering model	Features
HWS3000 AMY	Wide measuring range and high accuracy
HWS3000 STD	High accuracy
HWS3000 LTD	General accuracy

International Free Call

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Website



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