

## Weather Station

**M100WS**

**W1/ W2**



## Description

The multifunctional weather station is capable of monitoring a variety of outdoor air and meteorological parameters, as well as indoor air quality.

## Features

- **Precise Real-time Monitoring to Cope with Changing Weather**

Provide key data such as indoor and outdoor temperature, humidity, wind speed, rainfall, air pressure and so on with professional accuracy (such as  $\pm 0.5^{\circ}\text{C}$  temperature control) to help families predict extreme weather (such as blizzard, rainstorm, high temperature).

- **Multiple Monitoring Parameters are Selected to Meet the Diverse Needs of Families**

Optional functions such as uv index, soil moisture content (suitable for gardens/vegetable farm), air quality monitoring, etc., cover the needs of health, farming, outdoor activities and other scenarios. Some models support astronomical data (lunar phase, sunrise time) to meet the needs of camping, photography and other enthusiasts.

- **Wireless Network, Intelligent Early Warning, Remote Control is Convenient**

Through LoRa and Wi-Fi/synchronization to mobile APP and Web, it supports remote viewing of historical data and real-time alerts. Custom threshold triggers notifications to improve the efficiency of home security management.

- **Low Power Consumption Design, Long-term Peace of Mind**

The sensor uses low power technology (such as CR2032 battery powered for 2 years), and some high-end models support solar charging to reduce maintenance costs.

- **Minimal Installation, Weather Resistant Structure Design, Extreme Environment Adaptation**

Wireless sensors are plug and play and support DIY installation (no wiring required).

The sensor shell has an IP67 waterproof rating, low temperature resistance ( $-40^{\circ}\text{F}/-40^{\circ}\text{C}$ ) and UV aging resistance.

## Technical Parameter Table

| Model                        | M100WS & W1                                                                 | M100WS & W2 |
|------------------------------|-----------------------------------------------------------------------------|-------------|
| Indoor Temperature           | Range: 0 ~ 60°C/ (32 ~ 140°F);<br>Resolution: 0.1°C; Accuracy: ±1°C/ (±2°F) |             |
| Outdoor Temperature          | Range: -40 ~ 60°C/ (-40 ~ 140°F);<br>Accuracy: ±1°C/ (±2°F)                 |             |
| Indoor Humidity              | Range: 10 ~ 99 %; Resolution: 0.1%<br>Accuracy: ± 5% (20 ~ 90%)             |             |
| Outdoor Humidity             | Range: 10 ~ 99 %; Resolution: 0.1%;<br>Accuracy: ±5% (20 ~ 90%)             |             |
| UV Index                     | Range: 1 ~ 15; Accuracy: ±1                                                 |             |
| Sunlight                     | Range: 0 ~ 200K lux; Accuracy: ±15%                                         |             |
| Rain                         | Range: 0 ~ 9999mm;<br>Accuracy: <15mm: ±7% (15 ~ 9999mm)                    |             |
| Wind Direction               | Range: 0 ~ 360°; Resolution: 1°;<br>Accuracy: ±10° (16 point compass)       |             |
| Wind Speed                   | Range: 2 ~ 10m/s; Resolution: 0.1m/s;<br>Accuracy: ±0.3m/s                  |             |
| Barometric Pressure          | Range: 300 ~ 1100hpa; Resolution: 0.1 hpa;<br>Accuracy: ±3 hpa              |             |
| Other Indoor Parameters      | PM2.5, PM10, AQI, CO2, TVOC                                                 |             |
| Optional Parameters          | O3, NO2, CO, SO2, PM2.5, PM10, Soil Moisture Content                        |             |
| Classification of Waterproof | IP67                                                                        |             |

## Application Scenario



Indoor Air Quality  
Monitoring



Outdoor Air  
Quality Monitoring



Vegetable Farm



farming



Gardens