

8-in-1 LoRaWAN WEATHER STATION

THIS WEATHER STATION PROVIDES YOU WITH HYPERLOCAL WEATHER AT YOUR FINGERTIPS!

The S2120 Weather Station monitors Air Temperature, Humidity, Wind Speed/Direction, Rainfall, Light, UV Index, and Barometric Pressure measurements, perfect for home, office, or business use, this professional home weather station allows you to monitor your backyard weather conditions from anywhere. Protect your family, the house, and your garden with minutes of updates on weather changes. Additionally, S2120 weather stations also support applications in agriculture, meteorology, urban environmental monitoring, and other scenarios.

- **Powerful SenseCAP Mate App:**
Data visualization and remote device management
- **Compatibility with Multiple Networks and Platforms:**
Easily integrates with existing worldwide LoRaWAN networks
- **Configuration:**
Scan-and-Play Simplicity, Easy Configuration via Bluetooth in Just 1 minute



Specification

Specifications	Details
Air Temperature	Range: -40.0 ~ 80.0 °C Accuracy: ±0.5°C (0~80°C); ±0.6°C (-40~0°C) Resolution: 0.1°C
Air Humidity	Range: 1~99 %RH Accuracy: ±3% (1~90%RH); ±4% (90~99%RH) Resolution: 1%RH
Barometric Pressure	Range: 540 ~ 1100hPa Accuracy: ±5hPa(700~1100hPa); ±8hPa (540 ~ 699hPa) Resolution: 1hPa
Wind Speed	Range: 0~50.0m/s Accuracy: ±0.5m/s(<5m/s); ±10% (> 5m/s) Resolution: 0.1 m/s
Wind Direction	Range: 0~360° Accuracy: ± 8° Resolution: 1°
Light Intensity	Range: 0 ~ 200000 lux Accuracy: ± 5% Resolution: 1lux
UV Index	Range: 0 ~ 16.0 Accuracy: ±10% Resolution: 0.1
Rain Hourly	Range: 0 ~ 450 mm/h Accuracy: ± 7% Resolution: 0.254 mm/h

General Parameters

Specifications	Details
Product Model	S2120
Microcontroller	WM-LR1110
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/ AS923/KR920/RU864 *
GPS	Need to customize
LoRaWAN Max Transmitted Power	21dBm
LoRa Sensitivity	-141dBm@SF12 BW=125KHz
Communication Distance	2 to10km (depending on gateway antenna and environments)
Protection grade	Suitable for outdoor scenes
Operating Temperature	-20 to +60 °C (Alkaline battery); -40 to +60 °C (Lithium battery)
Operating Humidity	0~99%RH
Device Weight	1.5kg
Certification	CE / FCC / RoHS

Power Supply

Specifications	Details
Solar Panel	0.5W (When there is sunlight, solar panels will be used first, otherwise batteries will be used)
Battery Type**	AA size, 1.5V batteries (alkaline or non-rechargeable Lithium battery), batteries not included
Number of Battery	Option1, built-in battery box: 3 * AA battery, batteries not included; Option2, external battery box: 6 *AA battery, batteries not included
Battery Life	2 years (Solar Panel + 6*AA Battery, 1h/uplink)
External Battery Box	Support 6 * AA 1.5V batteries (batteries not included) Cable: 2m IP Rating: IPX6

* A device supports different frequencies and can be configured via the Bluetooth App.

** The battery life varies from data upload interval and distance between a gateway.

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