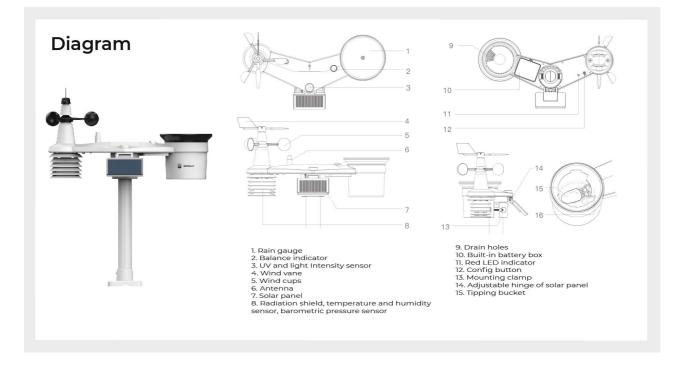
SenseCAP S2120 8-in-1 LoRaWAN Weather Sensor



Features

- **8-in-1 Weather Station:** Collect air temperature, humidity, wind speed/direction, rainfall, light intensity, UV index, and barometric pressure data in one device and upload them via LoRaWAN
- Bluetooth Configuration in 1 min & Remote Management: Simple configuration with just a few clicks, supports remote monitoring and managing real-time & historical data via the <u>SenseCAP Mate App</u> (Download here: 1. <u>iOS</u>; 2. <u>Google Play</u>; 3. <u>App Center</u>) and <u>SenseCAP Portal</u>
- Ultra-low Power Consumption, Easily Replaceable Battery & Expandable Capacity: Powered by 0.5W solar panel and 3*standard 1.5V AA size dry batteries with up to 2 years service life (support external battery compartment with capacity for six batteries to double the service life)
- **Reliable Performance**: Suitable for outdoor harsh environments such as high UV exposure, heavy rain, dusty conditions, etc
- **One-stop Deployment & Flexible Layout**: Accessories include poles, mounting stand, etc. for quick installation and can be set up at almost any location



Specification

Air Temperature		Rain Hourly	
Range	-40.0 ~ 80.0 ℃	Range	0 ~ 450 mm/h
Accuracy	±0.5°C (0~80°C); ±0.6°C (-40~0°C)	Accuracy	± 7%
Resolution	0.1℃	Resolution	0.254 mm/h
Air Humidity		General Parameters	
Range	1~99 %RH	Product Model	S2120
Accuracy	±3% (1~90%RH); ±4% (90~99%RH)	Microcontroller	WM-LR1110
Resolution	1%RH	Support Protocol	LoRaWAN v1.0.3 Class A
Barometric Pressure		Built-in Bluetooth	App Tool to change parameters

Range	540 ~ 1100hPa	LoRaWAN Channel Plan	IN865/EU868/US915/AU915/ AS923/KR920/RU864 *	
Accuracy	±5hPa(700~1100hPa);	GPS	Need to customize	
	±8hPa (540 ~ 699hPa)			
Resolution	1hPa	LoRaWAN Max Transmitted Power	21dBm	
Wind Speed		LoRa Sensitivity	-141dBm@SF12 BW=125KHz	
Range	0~50.0m/s	Communication Distance	2 to10km (depending on gateway antenna and environments)	
Accuracy	±0.5m/s(<5m/s); ±10% (> 5m/s)	Protection grade	Suitable for outdoor scenes	
Resolution	0.1 m/s	Operating Temperature	-20 to +60 °C (Alkaline battery)	
			-40 to +60 °C (Lithium battery)	
Wind Direction		Operating Humidity	0~99%RH	
Range	0~360°	Device Weight	1.5kg	
Accuracy	±8°	Certification	CE / FCC / RoHS	
Resolution	1°	Power Supply		
Light Intensity		Solar Panel	0.5W (When there is sunlight, solar panels will be used first, otherwise batteries will be used)	

Range	0 ~ 200000 lux	Battery Type**	AA size, 1.5V batteries (alkaline or non- rechargeable Lithium battery), batteries not included
Accuracy	± 5%	Number of Battery	Option1, built-in battery box: 3 * AA battery, batteries not included;
			Option2, external battery box: 6 *AA battery, batteries not included
Resolution	1lux	Battery Life	2 years (Solar Panel + 6*AA Battery, 1h/uplink)
UV Index		External Battery Box	Support 6 * AA 1.5V batteries (batteries not included)
			Cable: 2m
			IP Rating: IPX6
Range	0 ~ 16.0	* A device supports different frequencies and can be configured via the Bluetooth App.	
Accuracy	±10%	** The battery life varies from data upload interval and distance between gateways.	
	0.1		

Partlist

Picture	Name	Quantity
	Weather Station (Batteries not included)	1
	Pole mounting stand	1
	Mounting clamp	1
	Plastic pole	1
	Screw, Hex nut and Flat washer	4
	Screw and Hex nut	1
	External battery box (6*AA battery size, 2m cable, batteries not included)	1