



# KS200A

## IoT temperature & humidity sensor

### เครื่องตรวจวัดอุณหภูมิและความชื้นในอากาศ



Measurement range  
**-40 to 125 °C**



Operating relative humidity range  
**0 to 100% RH**



**802.11n, 2.4 GHz**



## TASMOTA



## Home Assistant

- Integrated WiFi SoC (NodeMCU v3) pre-flashed with Tasmota for integration with Home Assistant
- Li-Ion battery backup
- MQTT protocol compliant
- NTP client for time synchronization
- Modular, serviceable, repairable design with separate MCU module and professional motherboard
- Free and subscription based cloud services available for project customers



## **Karrot Sensor KS200A series**

### **IoT temperature & humidity sensor**

The KS200A is built with a factory calibrated Swiss-made precision digital sensor element using the Sensirion SHT3x series. The system is equipped with an advanced dust filter to protect the sensor element and features an IP54 rated enclosure ready for standard outdoor deployment with operating temperature range of max. 85°C.

### **Specification**

#### **T&H Sensor:**

Temperature

Typ. temperature accuracy	0.2°C
Operating temperature range	-40 - 125°C
Response time ( $\tau_{63\%}$ )	> 2s

Humidity

Typ. relative humidity accuracy	2%RH
Operating relative humidity range	0 - 100 %RH
Response time ( $\tau_{63\%}$ )	8s
Calibration certificate	Factory calibration

#### **WiFi :**

802.11n, 2.4 GHz

#### **Power:**

Model KS200A1:

220VAC input / 5VDC output power supply 2,000mA included in the package Rechargeable Li-Ion battery type 18650 (2,200mAh)

Model KS200A2:

12VDC dual fault-tolerant power input as used for centralized DC power backup and solar.

#### **Warranty:**

1 year.

Custom builds using SHT35 or supported sensor options (over 200 variations available) are available on special order. Please contact [sales@allit.info](mailto:sales@allit.info) for further information.

