

INDUSTRIAL PRODUCT DATASHEET

LHT52 Indoor LoRaWAN Air Temperature and Humidity Sensor - EU868, Smart home, Smart office, Smart factory

LHT52 Indoor LoRaWAN Air Temperature and Humidity Sensor delivers reliable long-range environmental monitoring with up to 2-year battery life and flexible alarm/config features.

SKU

101990983

UPDATED

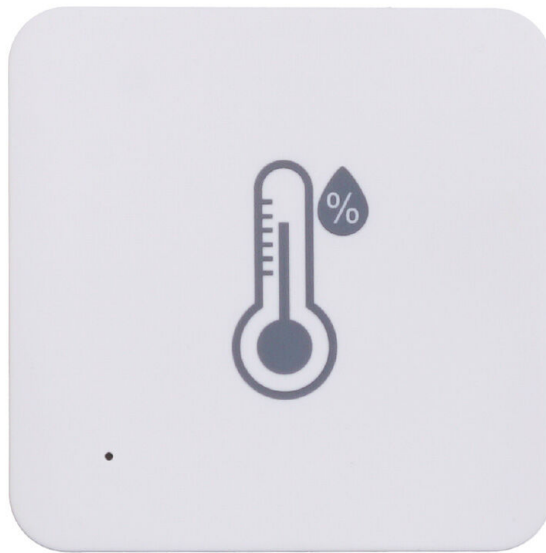
2026-09-21 10:05:22

PRICE

\$30.00(Excl. VAT)



Overview

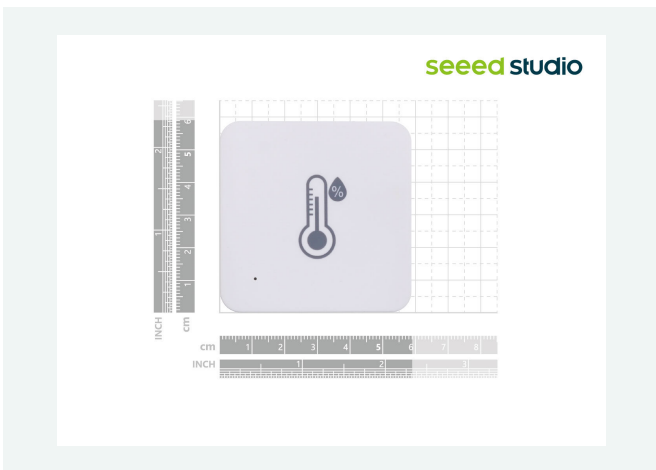


The LHT52 Indoor LoRaWAN Air Temperature and Humidity Sensor measures air temperature from -20 to 50°C and humidity from 0 to 99.0 %RH (No Dew), with low-power consumption from 2 x AAA LR03 batteries lasting up to 2 years. It provides long-range data transmission of 3–5 kilometers, supports platforms like Helium and TTN, and offers data retrievability for up to 178 historical data items, alarm functions, and flexible parameter configuration via AT commands or LoRaWAN Downlink.

Key Features

- **Wide Measuring Range:** can measure air temperature range from -20 ~ 50°C and humidity range from 0 ~ 99.0 %RH(No Dew)
- **Low-power consumption:** 2 x AAA LR03 batteries working for a long time up to 2 years
- **Long-range data transmission:** Data can be transmitted within a range of 3~5 kilometers
- **Support for multiple platforms:** Quick to use on platforms like Helium and TTN
- **Optional external probe:** Supports external probes, such as the addition of surface temperature detection sensors.
- **Data retrievability:** a maximum of 178 historical data items can be extracted through a downlink command for you to retrieve sensor value
- **Alarm Function:** Not all the data is valuable. LHT52 enables you to focus on those data that you need to take action for
- **Flexible parameter configuration:** Supports AT commands to change parameters, can remotely configure parameters through LoRaWAN Downlink

Product Gallery



Specification

Air Temperature		
Range		-20 ~ 50°C
Resolution		0.01 °C
Accuracy		Typ ±3 °C
Long Term Drift		< 0.02 °C/yr
Air Humidity		
Range		0 ~ 99.0 %RH(No Dew)
Resolution		0.1%RH
Accuracy		Typ ±3%RH
Long Term Drift		< 0.02 °C/yr
Other		
LoRaWAN Protocol		V1.0.3 Class A
Battery		2 x AAA LR03 battery (Not included in delivery)
IP Rating		IP52
Current		Idle: 5uA, Transmit: max 110mA

Storage and Operation Temperature	-20°C to +50°C
External Temperature Probe(Default Package doesn't include, For purchase please contact:sensecap@seeed.cc)	
Name	AS-01 base on DS18B20
Accuracy Range	±0.5°C accuracy from -10°C to +85°C ±2°C accuracy from -55°C to +125°C
Resolution	0.0625°C
Operation Temperature	-55 °C ~ 125 °C
Cable Length	2 meters

Part List

Air Temperature	
Range	-20 ~ 50°C
Resolution	0.01 °C
Accuracy	Typ ±3 °C
Long Term Drift	< 0.02 °C/yr
Air Humidity	
Range	0 ~ 99.0 %RH(No Dew)
Resolution	0.1%RH
Accuracy	Typ ±3%RH
Long Term Drift	< 0.02 °C/yr
Other	
LoRaWAN Protocol	V1.0.3 Class A
Battery	2 x AAA LR03 battery (Not included in delivery)
IP Rating	IP52
Current	Idle: 5uA, Transmit: max 110mA
Storage and Operation Temperature	-20°C to +50°C
External Temperature Probe(Default Package doesn't include, For purchase please contact:sensecap@seeed.cc)	
Name	AS-01 base on DS18B20
Accuracy Range	±0.5°C accuracy from -10°C to +85°C ±2°C accuracy from -55°C to +125°C
Resolution	0.0625°C
Operation Temperature	-55 °C ~ 125 °C
Cable Length	2 meters

Sensor	1
Double Coated Tissue Tape	2

Compliance & Logistics



HSCODE	9025800090
USHSCODE	9025900600
UPC	
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Indoor-LoRaWAN-Air-Temperature-and-Humidity-Sensor-EU868-p-5386.html>
- [LHT52 LoRaWAN Temperature and Humidity Sensor -Datasheet](#)
- [LHT52 LoRaWAN Temperature and Humidity Sensor -User Manual](#)

Seeed Technology Co.,Ltd.

9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676

Web: www.seeed.cc

Shop: www.seeedstudio.com