

Room Comfort Sensor



The Room Comfort Sensor is a **compact indoor environmental monitoring sensor** for measurement of temperature, humidity, light, CO2 concentration, and TVOC. The data will be shown on the E-ink screen **in real-time**, which helps to measure the indoor environment and comfort for meeting rooms.

- Integrated with multiple sensors like humidity, temperature, CO2, light, etc.
- Multiple display modes and clear emoticon to easily understand the comfort levels via screen
- Equipped with traffic light indicators and buzzer to indicate device status and threshold alarms
- With the help of LoRaWAN® Gateway, room temperature, humidity, etc. detected will also be shown on the cloud-based Meeting Room Booking System and Yeostar Room Display, making it easy for office managers to monitor in real-time
- Support batteries or DC power supply
- Store more than 18, 000 records of 512 KB in total locally

Specifications

Model	AM307-470M/868M/915M
Technology	LoRaWAN®
Frequency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868MHz)/22dBm(915MHz)/19dBm(470MHz)
Sensitivity	-137dBm @300bps
Work Mode	OTAA/ABP Class A
Display	4.2-inch Black & White E-Ink Screen
Button	1 × Power Button + 1 × Reset Button
LED & Buzzer	1 × Traffic Light Status Indicator + 1 × Buzzer
Configuration	Mobile App via NFC
Battery Life	Around 3 Years (10 min interval)
Power Supply	4 × 2700 mAh ER14505 Li-SOCI2 Chargeable Batteries or 5V/1A by Type-C Port
Relative Humidity	10% - 90% (non-condensing)
Ingress Protection	IP30
Dimension	100.8 × 114 × 22 mm (3.97 × 4.49 × 0.87 in)
Temperature Range	-20°C - 60°C (E-Ink Screen: 0°C - 40°C)
Temperature Accuracy	± 0.2°C
Temperature Resolution	0.1°C
Humidity Range	0% - 100% RH
Humidity Accuracy	± 2% RH
Humidity Resolution	0.5% RH
Light Range	0-60000 Lux (Determine as 6 levels, 0-5)
TVOC Range	1.00 - 5.00 (IAQ Index)
TVOC Accuracy	±1
CO2 Range	400 - 5000 ppm
CO2 Accuracy	± (30 ppm, 3% of reading)
CO2 Resolution	1 ppm