

packetSENSE Indoor TempHum

PacketSENSE Indoor TempHum is a compact IoT sensor designed to provide real-time visibility into indoor temperature and humidity conditions. Powered by Sensirion CMOSens® MEMS technology, it delivers accurate and reliable environmental data for continuous monitoring.

Its ultra-low-power design enables 7–9 years of operation using replaceable batteries, making it ideal for hotels, offices, schools, healthcare facilities, and other commercial buildings that require long-term environmental monitoring.



Key Features

- Real-time environmental data monitoring
- **Sensirion CMOSens®** MEMS technology for high precision
- **Ultra-low power** consumption with 7–9 years battery life
- **LoRaWAN®** connectivity for remote management

Applications

- Hospitality Establishments
- Commercial and Corporate Workspaces
- Educational Facilities
- Healthcare Facilities
- Religious Facilities

Technical Specification

Wireless Communication Supported Technology	AM102	AM102L
Frequency Band	LoRaWAN®	
Transmit Power	AS923-1&2&3&4	
Class	22 dBm (915 MHz)	
Detection Range	OTAA/ABP Class A	
	Up to 2 km	
Power Configuration		
Power Source	2 × 2700 mAh ER14505 Li-SOCI2	
Battery Type	Li-SOCI2	
Battery Voltage	3.6 V	
Battery Capacity	5400 mAh	
Battery Life (10 mins interval, 25°C)	Over 7 Years (SF7, EU868 & US915)	Over 9 Years (SF7, EU868 & US915)
Sensor Performance		
Sensor 1 Temperature		
Operating Principle	Digital CMOSens® technology (MEMS)	
Range	-20°C ~ 60°C	
Accuracy	Typ. ±0.3°C (-20°C ~ 0°C), ± 0.2°C (0°C ~ 60°C)	
Resolution	0.1°C	
Stability	Long-term drift ≤ 0.03°C/year	
Sensor 2 Humidity		
Operating Principle	Digital CMOSens® technology (MEMS)	
Range	0% RH~ 100% RH	
Accuracy	Typ. ± 2% RH (25°C)	
Resolution	0.5% RH	
General Specifications		
Operating Temperature	-20°C ~ 60°C (E-Ink Screen: 0°C ~ 40°C)	-20°C ~ 60°C
Relative Humidity	0% ~ 95% (non-condensing)	
Ingress Protection	IP30	
Enclosure Material	Polycarbonate and Acrylonitrile Butadiene Styrene	
Dimension	68 × 65 × 20.5 mm (2.68 × 2.56 × 0.81 in)	
Weight	119 grams	
Mounting/Installation	Wall Mounting via 3M Tape or Screws	
Others		
Display	2.13-inch E-Ink display	display-free version
Button	1 × Power/Reset Button	
LED	1 × Status Indicator	
Approvals		
Regulatory	CE, CE(RED), FCC, ISED	