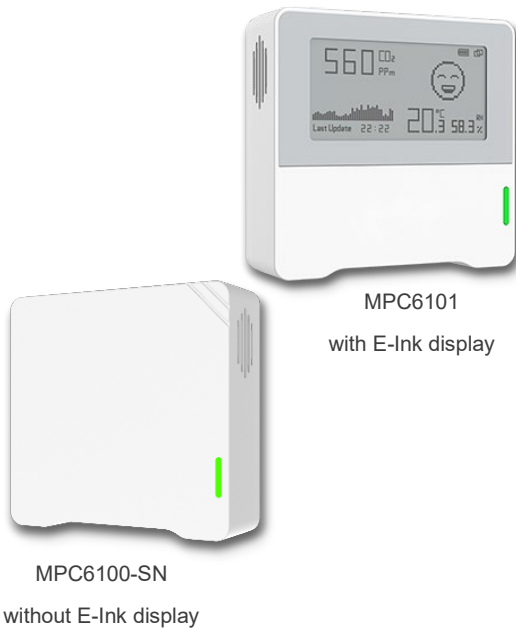


Indoor Ambience Monitoring Sensor

MPC6100 - 6101-SN



Compact indoor ambience monitoring sensors for measurement of temperature, humidity and CO₂. These data will be shown on the E-ink screen in real-time (MPC6101), which allow to quantify the indoor environment and comfort. These ambience monitoring sensors are widely used for offices, stores, classrooms, hospitals, etc.

Apart from screen display, sensor data can also be transmitted using wireless technology. With this low-power technology, the sensors can work for more than 3 years with 2 replaceable batteries. Combining with MobiCom Pro gateway and IoT Cloud solution, users can manage all sensor data remotely and visually.

◆ Features

- Integrated with multiple sensors like humidity, temperature and CO₂
- Visual data and clear emoticon to understand the comfort level easily via E-ink screen (MPC6101)
- Smart hibernate mode scheduled to save battery power
- Equipped with traffic light indicator to indicate multi-level CO₂ threshold alarms
- More than 3 years' work without replacing batteries
- Store locally 640 historical records and support retransmission to prevent data loss
- Built-in NFC for easy configuration

- Compliant with standard MobiCom Pro gateways and network servers
- Quick and easy management with MobiCom Pro IoT Cloud solution

◆ Specifications

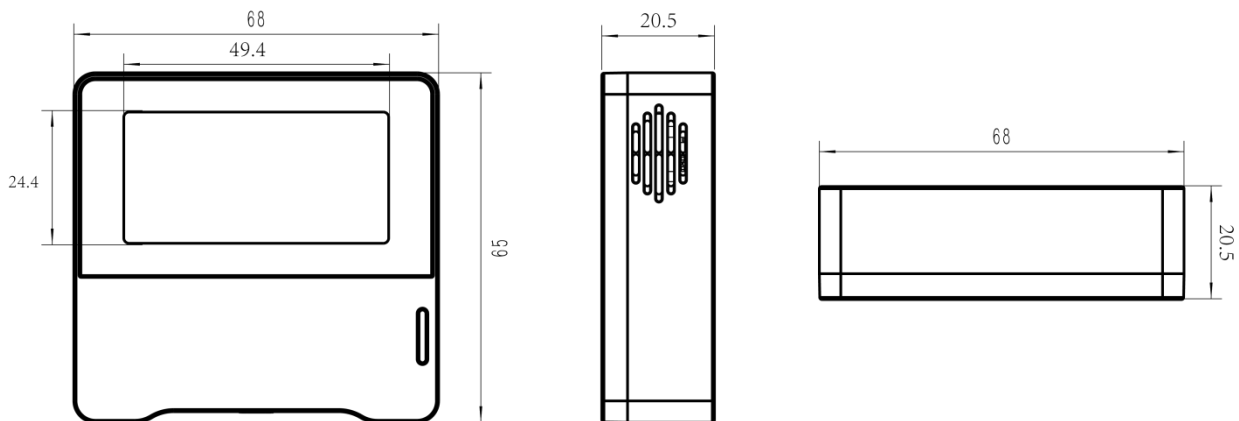
Wireless Transmission	
Technology	Wireless
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Sensors	
Temperature	
Operating Principle	Digital CMOSens® technology (MEMS)
Range	-20°C - 60°C
Accuracy ¹	± 0.2°C
Resolution	0.1°C
Humidity	
Operating Principle	Digital CMOSens® technology (MEMS)
Range	0% - 100% RH
Accuracy	± 2% RH
Resolution	0.5% RH
Carbon Dioxide (CO ₂)	
Sensor Type	Nondispersive Infrared (NDIR)
Range	400 to 5000 ppm
Accuracy	± (30 ppm + 3 % of reading) (0°C to +50°C)
Resolution	1 ppm
Display & Configuration	
Display	MPC6101: 2.13-inch Black & White E-Ink Screen MPC6100-SN: Not Support
Button	1 × Power Button
LED	1 × Traffic Light Status Indicator
Configuration	Mobile App via NFC

Physical Characteristics

Power Supply	2 × 2700 mAh ER14505 Li-SOCl ₂ Replaceable Batteries
Battery Life* (10 min interval, 25°C)	MPC6101: Around 3 Years (with E-Ink display) MPC6100-SN: Around 4 Years
Operating Temperature	-20°C to +60°C (E-Ink Screen: 0°C - 40°C)
Relative Humidity	0% to 95% (non-condensing)
Ingress Protection	IP30
Dimension	68 × 65 × 20.5 mm (2.68 × 2.56 × 0.81 in)
Installation	Wall Mounting

*The battery life is tested under laboratory conditions and for guideline purposes only.

◆ Dimensions(mm)



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