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Indoor Ambience Monitoring Sensor AM100 Series (AM103 & AM103L)





AM103 is a compact indoor ambience monitoring sensor for measurement of temperature, humidity and CO₂. These data will be shown on the E-ink screen in real-time, which allow to quantify the indoor environment and comfort. AM103 is widely used for office, store, classroom, hospital, etc.

Apart from screen display, sensor data can also be transmitted using LoRaWAN[®]. With this low-power technology, AM103 can work for more than 3 years with 2 replaceable batteries. Combining with Milesight LoRaWAN[®] gateway and Milesight 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
- Equipped with traffic light indicator to indicate multi-level CO₂ threshold alarms
- More than 3 years work without replacing batteries
- Built-in NFC for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with Milesight IoT Cloud solution

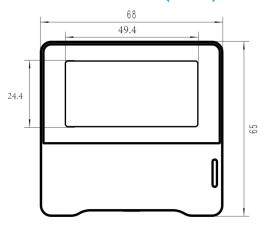
♦ Specifications

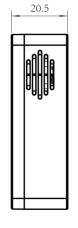
Wireless Transmission		
LoRaWAN [®]		
CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4		
16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)		
-137dBm @300bps		
OTAA/ABP Class A		
Temperature		
MEMS		
-20°C to + 70°C		
0°C to + 70°C (+/- 0.3°C), -20°C to 0°C (+/- 0.6°C)		
0.1°C		
Humidity		
MEMS		
0% to 100% RH		
10% to 90% RH (± 3%), below 10% and above 90% RH (± 5%)		
0.5% RH		
Carbon Dioxide (CO ₂)		
Nondispersive Infrared (NDIR)		
400 to 5000 ppm		
± (30 ppm + 3 % of reading)		
1 ppm		
Display & Configuration		
AM103: 2.13-inch Black & White E-Ink Screen		
AM103L: Not Support		
1 × Power Button		
1 × Traffic Light Status Indicator		
Mobile App via NFC		
Physical Characteristics		
2 × 2700 mAh ER14505 Li-SOCl ₂ Replaceable Batteries		
AM103: Around 3 Years		

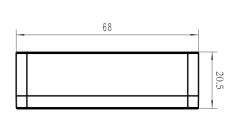
 $^{^{1}\,}$ Test under laboratory conditions and for guideline purposes only.

(10 min interval)	AM103L: 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

Dimensions(mm)















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