Indoor Ambience Monitoring Sensor AM100 Series (AM102 & AM102L)



AM102(L) is a compact indoor ambience monitoring sensor for measurement of temperature and humidity. These data will be shown on the E-ink screen in real-time, which allow to quantify the indoor environment and comfort. AM102(L) is widely used for office, store, classroom, hospital, etc.

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Apart from screen display, sensor data can also be transmitted using LoRaWAN[®]. With this low-power technology, AM102(L) can work for more than 7 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

- Uses Sensirion high-precision sensor, capable of sensing subtle changes in temperature and humidity
- > Visual data to understand the environment easily via E-ink screen
- > Smart hibernate mode schedulely to save battery power
- More than 7 years work without replacing batteries
- > Store locally 1280 historical records and support retransmission to prevent data loss
- > 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	
Technology	LoRaWAN [®]
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% RH~ 100% RH
Accuracy	± 2% RH
Resolution	0.5% RH
Display & Configuration	
Display	AM102: 2.13-inch Black & White E-Ink Screen
	AM102L: Not Support
Button	1 × Power Button
LED	1 × Status Indicator
Configuration	Mobile App via NFC
Physical Characteristics	
Power Supply	2×2700 mAh ER14505 Li-SOCI ₂ Replaceable Batteries
Battery Life*	AM102: Over 7 Years
(10 min interval, 25°C)	AM102L: Over 9 Years
Operating Temperature	-20°C ~ 60°C (E-Ink Screen: 0°C ~ 40°C)
Relative Humidity	0% ~ 95% (non-condensing)
Ingress Protection	IP30
Dimension	68 × 65 × 20.5 mm (2.68 × 2.56 × 0.81 in)

Installation	Wall Screw Mounting, 3M Tape Mounting
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*The battery life is tested under laboratory conditions and for guideline purposes only.





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