



AM100 Series

Ambience Monitoring Sensors





AM100 series is a compact indoor ambience monitoring sensor for measurement of temperature, humidity, light, CO₂ concentration, TVOC, barometric pressure and motion. These data will be shown on the E-ink screen in real-time, which allow to quantify the indoor environment and comfort. AM100 series is widely used for offices, stores, classrooms, hospitals, etc.

Apart from screen display, sensor data is also transmitted using LoRaWAN® technology. With this low power consumption technology, AM100 series can work for one year with 2 AA 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, CO₂, light, barometric pressure, etc.
- Visual display via E-ink screen
- Standard AA batteries
- One year work without replacing batteries
- Equipped with NFC and type-C port for easy configuration
- Compliant with standard LoRaWAN® gateways and network servers
- Quick and easy management with
 Milesight IoT Cloud solution

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♦ Specifications

Model	AM104	AM107	
Wireless Transmission	1		
Technology	LoRaWAN®		
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923		
Tx Power	16dBm(868)/20dBm(915)/19dBm(470)		
Sensitivity	-137dBm @300bps		
Mode	OTAA/ABP Class A		
Sensors			
Temperature			
Range	-20°C to + 70°C		
Accuracy	0°C to + 70°C (+/- 0.3°C), -20°C to 0°C (+/- 0.6°C)		
Resolution	0.1°C		
Humidity			
Range	0% to 100% RH		
Accuracy	10% to 90% RH (+/- 3%), below 10% and above 90% RH (+/- 5%)		
Resolution	0.5% RH	0.5% RH	
PIR			
Detection Area	94 ° Horizontal, 82 ° Vertical		
Detection Distance	5 m		
Output Range	0-65535		
Light			
Range	60000 lux (Visible + IR, IR)		
Accuracy	±30%		
Carbon Dioxide (CO ₂)			
Range	_	400 - 5000 ppm	
Accuracy	-	±30 ppm or ±3 % of reading	

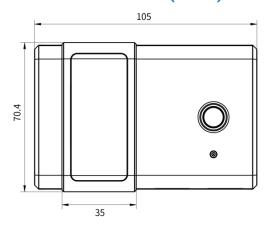


Resolution	_	1 ppm	
TVOC			
Range	_	0 - 60000 ppb	
Accuracy	_	±15 %	
Resolution	_	1 ppb	
Long-term Stability	_	1.3 % accuracy drift per year	
Barometric Pressure			
Range	<u>—</u>	300 - 1100 hPa (-40°C - 85°C)	
Accuracy	_	±1 hPa	
Resolution		0.1 hPa	
Display & Configuration	1		
Display	2.13-inch Black & White E-Ink Screen		
Configuration	1. Mobile APP via NFC		
	2. PC software via NFC or USB Type-C port		
Physical Characteristic	S		
Power Supply	2 × AA Alkaline batteries or type-C port power supply		
		0.9 years (SF7)	
Battery Life*	1.5 years (SF7)	0.7 years (SF10)	
(10 min interval)	1.2 years (SF10)	1.1 years (VOC disabled, SF7)	
		0.9 years (VOC disabled, SF10)	
Operating Temperature	0°C to +45°C		
Relative Humidity	0% to 100% (non-condensing)		
Ingress Protection	IP30		
Dimension	105 × 70.4 × 21.2 mm (4.1 × 2.8 × 0.8 in)		
Installation	Wall Mounting		
Approvals			
Regulatory	CE, FCC, LoRaWAN® Certified		
EMC	EN 55032, EN 55035		
EMS	IEC 61000-4-2 Level 3		
	IEC 61000-4-3 Level 2		
	IEC 61000-4-4 Level 4		
	IEC 61000-4-5 Level 3		
	IEC 61000-4-6 Level 3		
	IEC 61000-4-8 Level 4		
Radio Frequency	FCC Part 15B, FCC Part 15.247, EN 300 330,EN 301 489-1/3,		

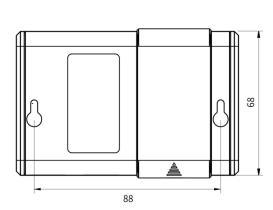
	EN 300 220-1/2
Safety	EN62368-1

^{*} Tested under laboratory conditions and for guideline purposes only.

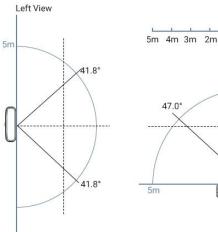
◆ Dimensions(mm)

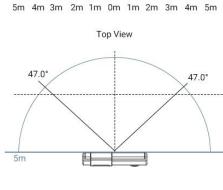






◆ PIR Area





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