

AM308 AM308L



Indoor Air Quality Sleek, Attractive and Compact Design

AM308 measure:

- Temperature
- Humidity
- CO2
- TVOC
- Light (Illumination)
- Motion (PIR)
- Barometric pressure
- PM2.5, PM10

AM308 is widely used in offices, stores, classrooms, hospitals, kindergartens, etc.

AM308 comes with a ink paper display. AM308L does not have a display.

AM308 Support batteries or DC power supply.

Both models are equipped with

- NFC for mobile app configuration (Android and iOS).
- USB-C and NFC is available for configuration via Notebook.
- Storage locally of 18,000 historical records and support retransmission to prevent data loss

Both versions are compliant with standard LoRaWAN® gateways and network servers

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Wireless transmission

Technology	LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923
Tx Power	16dBm(868)/22dBm(915)/19dBm(470)
Sensitivity	-137dBm @300bps
LoRa class	OTAA/ABP Class A

Temperature

Range	-20°C - 60°C
Accuracy	± 0.2°C
Resolution	0.1°C

Humidity

Range	0% - 100% RH
Accuracy	±2%
Resolution	0.5% RH

CO2 (Carbon Dioxide)

Range	400 - 5000 ppm
Accuracy	± (30 ppm + 3 % of reading) (0°C - 50°C, 0% - 85%RH)
Resolution	1 ppm

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TVOC (Total Volatile Organic Compound)

Range 1 - 5 (IAQ index)

Accuracy ± 1

Motion (Passive infrared)

Detection Area 80° Horizontal, 55° Vertical

Detection Distance 5 m

Status Vacant/Occupied

Light (Illumination)

Range 0 - 60000 lux (Displayed as 6 levels, 0 to 5)

Barometric pressure

Range 260 - 1260 hPa

Accuracy ± 0.5 hPa

Resolution 0.1 hPa

PM2.5, PM10

Range 0 - 1000 $\mu\text{g}/\text{m}^3$

Accuracy 0 - 100 ($\pm 10\mu\text{g}/\text{m}^3$), 100 - 1000 ($\pm 10\%$), (-10°C - 60°C)

Resolution 1 $\mu\text{g}/\text{m}^3$

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Physical characteristics

Power supply	<ul style="list-style-type: none">4 × 2700 mAh ER14505 Li-SOCl2 battery5V/1A by Type-C Port
Battery life (10 min interval, 25°C)	<ul style="list-style-type: none">AM308 over 1 year.AM308L around 1.5 year.
Operating Temp.	-20°C to +60°C (E-ink screen 0°C - 40°C)
Relative humidity	10% to 90% non-condensing
Ingress protection	IP30
Dimension	100.8 × 114 × 22 mm (3.97 × 4.49 × 0.87 in)
Installation	Wall mounting via 3M tape or screws

Display

Display	4.2-inch black & white E-Ink screen
Button	1 × Power button + 1 × Reset button
LED and buzzer	1 × Traffic light status indicator + 1 × Buzzer
Configuration	Mobile App via NFC PC software via NFC or USB Type-C port



Gateway UG65



Specifications are according to the manufacturer and might change without any notice

Sing Go Tech

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Approvals

Regulatory CE, FCC, ISED

Environmental RoHS

IAQ rating guideline (conversion from mg/m3 to ppm by the factor is about 0.5)

≤1.99	Very good
2.00 to 2.99	Good
3.00 to 3.99	Medium (Not recommended for exposure > 12 months)
4.00 to 4.99	Poor (Not recommended for exposure > 1 months)
≥5.00	Bad (Not recommended)

Note: The battery life stated is tested under laboratory conditions and for guideline purposes only.

