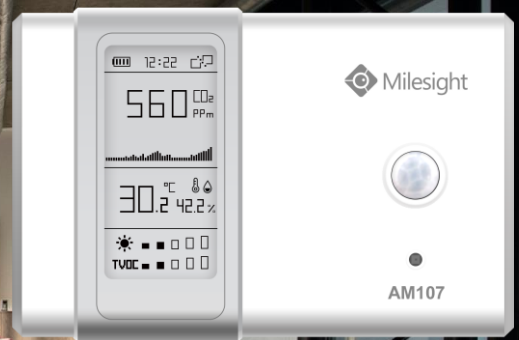


AM107



Indoor Air Quality

Sleek, Attractive and Compact Design

AM107 is ideal for Indoor Air Quality applications, measuring

- Temperature
- Humidity
- CO2
- TVOC
- Light (Illumination)
- Motion (PIR)
- Barometric pressure

AM107's real-time data can be shown on the E-ink display.

AM107 is widely used in offices, stores, classrooms, hospitals, kindergartens, etc.

AM107 applies 2 standard AA batteries, providing approximately one-year battery life.

AM107 is equipped with NFC for mobile app configuration (Android and iOS).

USB-C and NFC is available for configuration via Notebook.

AM107 is compliant with standard LoRaWAN[®] gateways and network servers





AM107

Indoor Air Quality

Sleek, Attractive and Compact Design

Wireless transmission

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

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

CO2 (Carbon Dioxide)

Range	400 - 5000 ppm
Accuracy	±30 ppm or ±3 % of reading
Resolution	1 ppm



AM107

Indoor Air Quality Sleek, Attractive and Compact Design

TVOC (Total Volatile Organic Compound)

Range	0 - 60000 ppb
Accuracy	±15 %
Resolution	1 ppb
Long-term stability	1.3 % accuracy drift per year

Motion (Passive infrared)

Detection Area	94 ° Horizontal, 82 ° Vertical
Detection Distance	5 m
Range	0-65535

Light (Illumination)

Range	60000 lux (Visible + IR, IR)
Accuracy	±30%

Barometric pressure

Range	300 - 1100 hPa (-40°C - 85°C)
Accuracy	±1 hPa
Resolution	0.1 hPa



Gateway UG65

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

Sing Go Tech



AM107

Indoor Air Quality

Sleek, Attractive and Compact Design

Physical characteristics

Power supply	2 × AA Alkaline batteries or type-C port power supply
Battery life at 10 min interval	0.9 years (SF7), 0.7 years (SF10), 1.1 years (VOC disabled, SF7), 0.9 years (VOC disabled, SF10) For guideline purposes only!
Operating Temp.	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
Display	2.13 inch black & white E-Ink display

Approvals

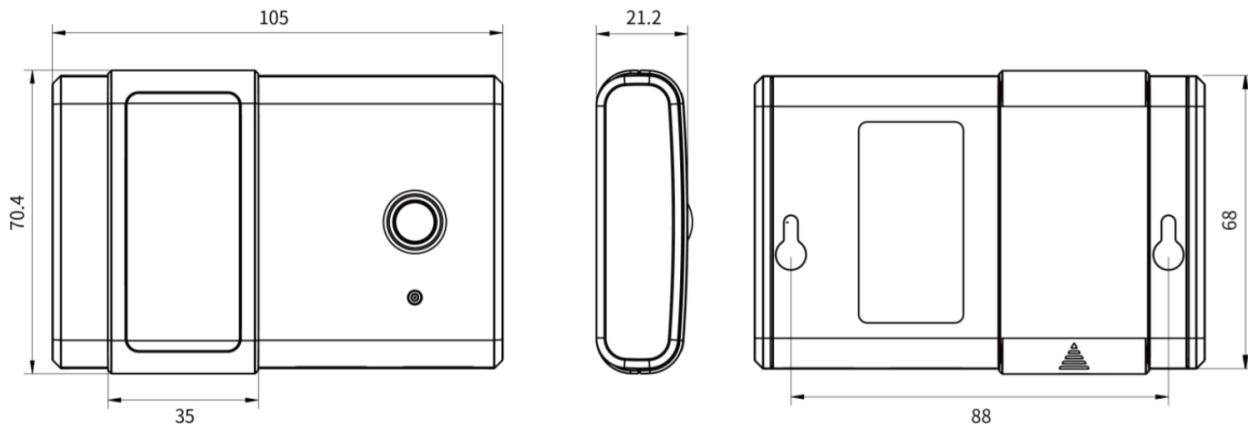
Regulatory	CE, FCC, LoRaWAN® certified
EMC	EN 55032, EN 55035
EMS	IEC 61000-4-2 Level 3, IEC 61000-4-3 Level 2, IEC 61000-4-4 Level 4, IEC 61000-4-5 Level 3, IEC 61000-4-6 Level 3, IEC 61000-4-8 Level 4
Radio Frequency	4-8 Level 4 Radio Frequency FCC Part 15B, FCC Part 15.247, EN 300 330, EN 301 489-1/3, EN 300 220-1/2
Safety	EN62368-1

AM107



Indoor Air Quality Sleek, Attractive and Compact Design

Dimensions in millimeters (mm)



Motion area coverage in meters (m)

