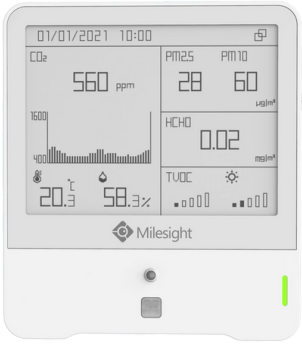
7/9-in-1 IAQ Sensor AM307 & AM319

APPLICATIONS



- SMART OFFICES
- SMART STORE
- SMART CLASSROOM, HOSPITAL, ETC

FEATURES

MULTIPLE SENSORS
humidity, temperature, CO2, light, barometric pressure, PM2.5, PM10, etc.

MULTIPLE DISPLAY MODES
to understand the comfort level easily

SUPPORT BATTERIES
or DC power supply

TRAFFIC LIGHT INDICATOR AND BUZZER
to indicate device status and threshold alarms

>18,000 RECORDS STORE
of 512 KB in total

MILESIGHT IOT CLOUD
compatibility

COMPATIBLE WITH STANDARD
LoRaWAN gateways & network servers

SPECIFICATIONS

Model	AM307	AM319
Wireless Transmission		
Technology	LoRaWAN ®	

7/9-in-1 IAQ Sensor AM307 & AM319

Frequency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923-1&2&3&4	
Tx Power	16dBm(868MHz)/22dBm(915MHz)/19dBm(470MHz)	
Sensitivity	137dBm @300bps	
Mode	OTAA/ABP Class A	OTAA/ABP Class C

Sensors

Temperature		
Range	-40°C - 85°C	
Accuracy	± 1°C	
Resolution	0.1°C	
Humidity		
Range	0% - 100% RH	
Accuracy	± 3%	
Resolution	0.5% RH	
PIR		
Detection Area	80 ° Horizontal, 55 ° Vertical	
Detection Distance	5m	
Status	Vacant/Occupied	
Light		
Range	0-60000 Lux (Determine as 6 levels, 0-5)	
TVOC		
Range	0-500 (IAQ Index)	
Accuracy	±15 %	
Barometric Pressure		
Range	300 - 1100 hPa (-40°C - 85°C)	
Accuracy	±0.6 hPa	
Resolution	0.1 hPa	
Carbon Dioxide (CO2)		
Range	400 - 5000 ppm	400 - 2000 ppm
Accuracy	± (30 ppm or + 3 % of reading)	± (50 ppm + 5 % of reading)
Resolution	1 ppm	1 ppm
PM2.5 & PM10		
Range	-	0 - 1000 μg/m3
Accuracy	-	0-100(±10μg/m3), 100-1000(±10%)

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Resolution	-	1 µg/m3
Formaldehyde (HCHO)1		
Range	-	0 - 6 mg/m3
Accuracy	-	±10 %
Resolution	-	0.01 mg/m3
Ozone (O3)2		
Range	-	0 - 10 ppm
Accuracy	-	±5 % FS
Resolution	OTAA/ABP Class A	0.01 ppm

Display & Configuration

Display	4.2-inch Black & White E-Ink Screen
Button	1 × Power Button + 1 × Reset Button
LED & Buzzer	1 × Traffic Light Status Indicator + 1 × Buzzer
Configuration	1. Mobile App via NFC 2. PC software via NFC or USB Type-C port

Physical Characteristics

Power Supply	4 × 2700 mAh ER14505 Li-SOCl2 Replaceable Batteries or Type-C Port	5V/1A by Type-C Port
Battery Life	Around 3 Years (10 min interval)	-
Operating Temperature	-20°C - 60°C (E-Ink Screen: 0°C - 40°C)	
Relative Humidity	10% - 90% (non-condensing)	
Ingress Protection	IP30	
Dimension	100.8 × 114 × 22 mm (3.97 × 4.49 × 0.87 in)	
Installation	3M Tape Mounting, Wall Screw Mounting, 86 Box Mounting	

*This function is valid in the measurement of either HCHO or O3.
*O3 electrochemical sensor working life is 2 years and HCHO sensor working life is 5 years; they both support replacement.
*Test under laboratory conditions and for guideline purposes only.

017 299 6500
C-8-2, Blok C, Setia Walk, Persiaran Wawasan, Pusat Bandar Puchong, 47160 Puchong, Selangor, Malaysia.
info@ipsec.com.my
https://www.ipsec.com.my