

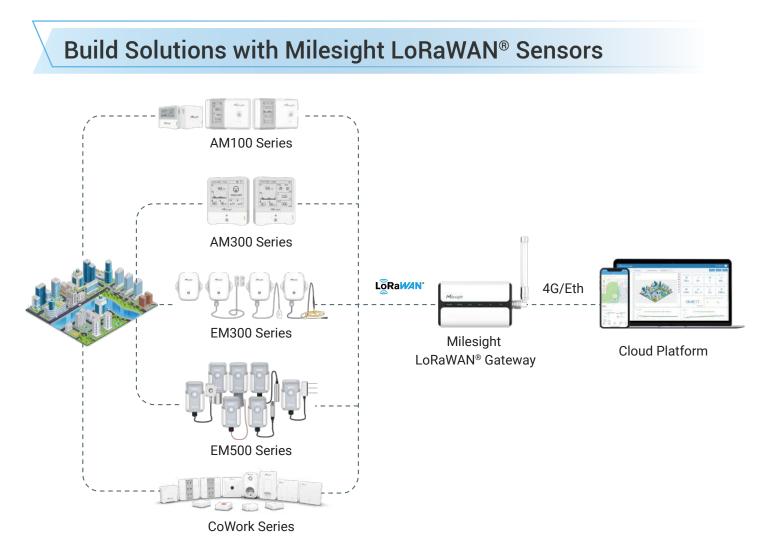
# Milesight LoRaWAN<sup>®</sup> Sensor

Collect Data and Monitor Environment with Ease





Our range of sensors is the result of our know-how in the development of wireless IoT projects. They are all compatible with LoRaWAN<sup>®</sup> (Long Range Wide-Area Network) that enables ultra long range communication combined with low power consumption. Leveraging NFC technology, they are easy to use. With high quality and high performance, they are ideal for various application scenarios and are tested and used worldwide.







AM103 is a compact indoor ambience monitoring sensor for the measurement of temperature, humidity and CO<sub>2</sub>. These data will be shown on the E-ink screen (AM103 only) in real-time, which allows to quantifying the indoor environment and comfort. AM103 is widely used for offices, stores, classrooms, hospitals, etc.

## **Overall Features**

- 3 Sensors in One Temperature, humidity and CO2
- Vivid Emoticon Indication (AM103) Indicate comfort level by emoticon on screen
- Traffic Light Status Indicator Indicate the ambience conditions





# 4/7-in-1 IAQ Sensor

Milesight 4/7-in-1 IAQ Sensor consists of multiple smart sensors that are built specifically for indoor air quality monitoring. It has a clean and modern design that makes it discrete in indoor ambience.



### Multiple Sensors in One

*AM104:* Temperature, humidity, activity level (PIR), light *AM107:* Temperature, humidity, activity level (PIR), light, CO<sub>2</sub>, TVOC, barometric pressure

### Clean and Modern Design

Bring "less is more" concept to indoor or HVAC environment

### NFC Technology

Enable easy configuration & on/off operation

### • E-ink Screen

Offer high display clarity & sunlight readability

- AA Alkaline Batteries Last for 1 year & easy to replace
- Smart Screen Mode

Save more power & prolong the use life of batteries

Compliant with Milesight IoT Cloud

# **Ambience Monitoring Sensor**

• 7/9-in-1 IAQ Sensor



# 7/9-in-1 IAQ Sensor

Milesight 7/9-in-1 IAQ Sensor is an all-around ambience monitoring device designed for indoor air quality monitoring. It collects more indoor ambience conditions through 9 built-in sensors, delivers the data to both mobile app and has 4.2 inch E-ink screen, helping you to understand the indoor comfort & health level visually.

## **Overall Features**

Multiple Sensors in One

AM307: Temperature, humidity, PIR, light, TVOC, barometric pressure, CO2AM319: Temperature, humidity, PIR, light, TVOC, barometric pressure, CO2, PM2.5 & PM10, HCHO/O3

### Emoticon Indication

Indicate comfort level by emoticon on screen

# Traffic Light Indicator & Buzzer

Indicate the ambience conditions & threshold alarms

Better Screen Display

Support light & dark color theme with three display styles

### Anti-Theft Design

Prevent the device from being taken away thoughtlessly

# <complex-block><complex-block> Environment Monitoring Sensor • EM300 Series Image: Sensor Image: Sensor

# **EM300 Series - Environment Monitoring Sensor**

Featuring a simple yet modern design, compact size and waterproof capability, the EM300 series is ideal to ideal to fit into the indoor or outdoor environment.

## **Overall Features**

### Industrial-grade Digital Sensor

- Support extra temperature and humidity detection (except UDL & TILT)
- High accuracy of detection
- Rated at IP 67

## LoRaWAN<sup>®</sup> Capabilities

With a range of up to 15 km in rural areas and 2 km in urban areas

- 2 x ER18505 4000 mAh Li-SOCl<sub>2</sub> Battery Lasting over 10 years
- Easy Configuration via NFC

# Environment Monitoring Sensor

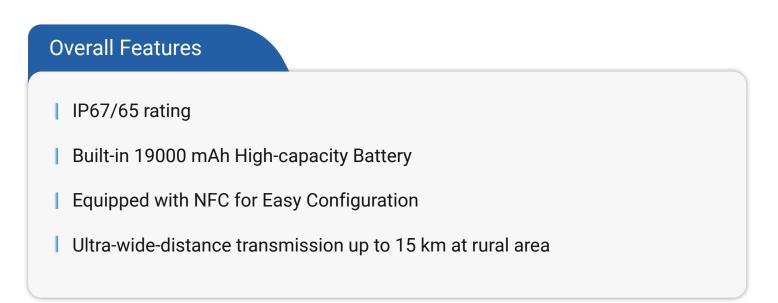
Features Comparison			
	Model	Features	
	<b>EM300-TH</b> Temperature & Humidity Sensor	<b>Embedded with high-precision sensor chip</b> Measure range from -30 °C to 70 °C & 0% to 100% RH	
	EM300-SLD/ZLD Leak Detection Sensor	<b>Detect water leakage based on the principle of liquid conduction</b> (SLD: by a small water probe ZLD: by a long cable) Prevent potential water damage to properties or assets	
	<b>EM300-MCS</b> Magnetic Contact Switch Sensor	High sensitivity with door & window security detection Alarm for intrusion or unauthorized entry to your monitored conditions	
	<b>EM310-UDL</b> Ultrasonic Distance/ Level Sensor	Non-contact distance detection 3-450cm measurement range and short blind zone Built-in 3-axis accelerometer sensor Detect device gesture to monitor device tilt status	
(form	<b>EM310-TILT</b> Tilt Sensor	3-Axis angle detection via MEMS accelerometer & built-in zero adjustment 36 customized trigger rules & IP67 waterproof NFC configuration & easy installation	

Milesight



# EM500 Series - Outdoor Environment Monitoring Sensor

The EM500 Series are LoRaWAN<sup>®</sup> sensors designed for different professional applications. These sensors adopt a high ingress protection rating enclosure for use in the most challenging outdoor environmental conditions, and are powered by built-in batteries for years-long use life.





Features Comparison				
Model		Features		
	<b>EM500-SMTC/SMT</b> Soil Moisture, Temperature and Electrical Conductivity Sensor	<ul> <li>Research-grade Accuracy in Multiple Soil Media</li> <li>Corrosion Resistance &amp; Tough Probe</li> <li>Rapid Monitoring of Growing Conditions</li> <li>IP67 Waterproof Enclosure</li> </ul>		
	<b>EM500-LGT</b> Light Sensor	<ul> <li>Measuring Ranges from 0 to 100, 000 lux with High Precision</li> <li>10-year Battery Life with Low Maintenance Cost</li> <li>Accurate Detection of Any Light Changes</li> <li>IP67 Waterproof Enclosure</li> </ul>		
	<b>EM500-PP</b> Pipe Pressure Sensor	<ul> <li>Shock &amp; Vibration &amp; Corrosion Resistant</li> <li>Measuring Accuracy around ±0.5% FS to Prevent Leakage danger</li> <li>Temperature Compensation for Correcting Temperature Changes</li> <li>IP67 Waterproof Enclosure</li> </ul>		
	<b>EM500-SWL</b> Submersible Water Level Sensor	<ul> <li>Customizable Measuring Range Up to 200 m</li> <li>Submersible Pressure Sensor not Affected by Foam, Wind, or Rain</li> <li>IP67 Full Sealed Plastic Waterproof Design</li> <li>Customizable for Oil and Other Non-Corrosive Media</li> </ul>		
	<b>EM500-PT100</b> Industrial Temperature Sensor	<ul> <li>Vibration-resistant Construction</li> <li>Three-wire Circuit</li> <li>Customizable Temperature (-200 ~ 800 °C )</li> <li>Terminal Heads Varying from the Straight Tube, Armored, SMT, Threaded, Magnet</li> <li>IP67 Waterproof Enclosure</li> </ul>		
	<b>EM500-UDL</b> Ultrasonic Distance/Level Sensor	<ul> <li>Measuring Ranges: 0.3-5m/0.5-10m</li> <li>Measurements in Very Small Containers or Openings</li> <li>Suitable for Measuring Benign &amp; Chemical Mediums</li> <li>Non-contact Detection for Any Corrosive Liquid Chemicals or Combustibles</li> <li>IP67 Waterproof Enclosure</li> </ul>		
	<b>EM500-CO</b> 2 Carbon Dioxide Sensor (4 in 1)	<ul> <li>Measuring Ranges (0 to 50°C): 400 ppm to 5000 ppm</li> <li>Easy Installation in Any Enclosed Areas or Outdoor Environment</li> <li>4 in 1 (CO<sub>2</sub>, barometric pressure, humidity, temperature)</li> <li>IP65 Waterproof Enclosure</li> </ul>		

# **CoWork Series**

- VS121 AI Workplace Sensor
  - WS101 Smart Button
- WS136 & WS156 Smart Scene Panel
- WS202 PIR & Light Sensor
- WS301 Magnetic Contact Switch
- WS302 Sound Level Sensor
- WS50x Wall Switch
- WS52x Smart Portable Socket

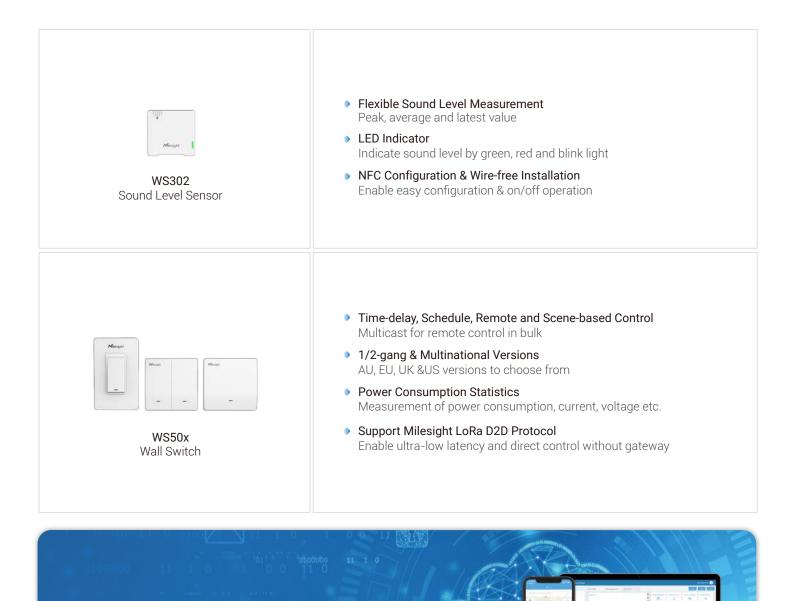
# **CoWork Series Featuring LoRaWAN®**

CoWork Series is specially designed for office efficiency improvement and carbon footprint reduction. Empowered by AI and IoT technology, these sensors help to transform work environment into a smart, interconnected and comfortable space with the help of gateway and cloud platform.

Features Comparison			
Model	Features		
VS121 Al Workplace Sensor	<ul> <li>Anonymous Detection No image data is collected, free from privacy concerns</li> <li>&gt;95% Recognition Rate Based on advanced AI identification and analysis technology</li> <li>Custom Detection Region Support up to 16 mapped regions for detection &amp; 78m<sup>2</sup> coverage</li> <li>Equipped with Wi-Fi for Web GUI Configuration &amp; Compatible with GDPR</li> </ul>		
WS101 Smart Button	<ul> <li>Support Multiple Press Actions Control devices, trigger a scene or send emergency alarms</li> <li>Convenient Size Easy to install</li> <li>Built-in LED Indicator &amp; Buzzer Indicate press actions, network status, low battery</li> <li>Support Milesight LoRa D2D Protocol Enable ultra-low latency and directly control without gateway</li> </ul>		
WS136 & WS156 Smart Scene Panel	<ul> <li>Support Milesight LoRa D2D Protocol Enable ultra-low latency and directly control without gateway</li> <li>Battery-powered &amp; Wire-free Long battery life lasts for more than 5 years</li> <li>Customizable display with E-Ink screen for WS156</li> <li>Customizable display with E-Ink screen for WS156</li> </ul>		

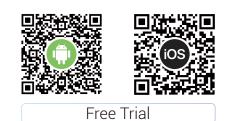


WS202 PIR & Light Sensor	<ul> <li>Occupancy or Motion Detection Based on passive infrared and fresnel lens</li> <li>Convenient Size Easy to install</li> <li>Built-in Light Sensor &amp; PIR Sensor Built-in sensors to achieve triggers</li> <li>Support Milesight LoRa D2D Protocol Enable ultra-low latency and directly control without gateway</li> </ul>
WS301 Magnetic Contact Switch	<ul> <li>100% Wire-Free Suitable for various doors/windows of different materials</li> <li>Tamper Detection Alert administrator to any attempts to dismount the device</li> <li>Built-in 1200 mAh Replaceable Battery Long battery life lasts for more than 4 years</li> <li>Built-in LED Indicator Indicate network status, open/close status, tamper and low battery indication</li> <li>Support Milesight LoRa D2D Protocol Enable ultra-low latency and directly control without gateway</li> </ul>
WS52x Portable Socket	<ul> <li>Remote &amp; Time-Based ON/OFF Create schedules to turn the remote appliances on/off automatically</li> <li>Measurement of Power Consumption, Current, Voltage etc. Save power &amp; lower electric bills</li> <li>Overload Protection Prevent connected appliances, safety fuse and the smart socket itself from damage of overcurrent</li> <li>Support Multicast Control switch of devices in bulk</li> </ul>



Milesight IoT Cloud provides unparalleled levels of vertical integration with Milesight LoRaWAN<sup>®</sup> sensors. Through field data visualization, it allows users to monitor and control remote assets on an intuitive dashboard. What's more, it enables trigger reception, report, sharing, transferring etc., offering extraordinary flexibility of managing connected devices.

Milesight IoT Cloud





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