

The Silent Revolution Transforming Smart Buildings



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A fast-growing high-tech company delivering smart IoT products and solutions.

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Comprehensive IoT solutions designed to enable smart building.

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Success Stories

Worldwide success stories reveal how the solution truely satisfies customer needs for great performance.





01

MILESIGHT PROFILE

- About Milesight
- Milesight Product Profolio





Milesight offers multi-potential sensing products that accurately capture the most relevant and significant data for a growing variety of needs and applications.

Across Al, 5G, loT, and other forward-thinking technologies, we innovatively extend the technological potential to unique niches and scenarios. With a keen perception of data value, we prioritize adaptive agility to quickly respond to customer-specific challenges and deliver safety, efficiency, and business insights.

In collaboration with a diverse partner ecosystem, we are committed to realizing data value and making real and positive impacts in the fields of smart building, intelligent traffic, intelligent security, smart city, and beyond.



ABOUT

MILESIGHT



56%

R&D Staff



>15%

Revenue invested in R&D and innovation



120+

Serves to 120+ Countries and Regions



1,000,000 +

Milesight Devices Deployed Globally

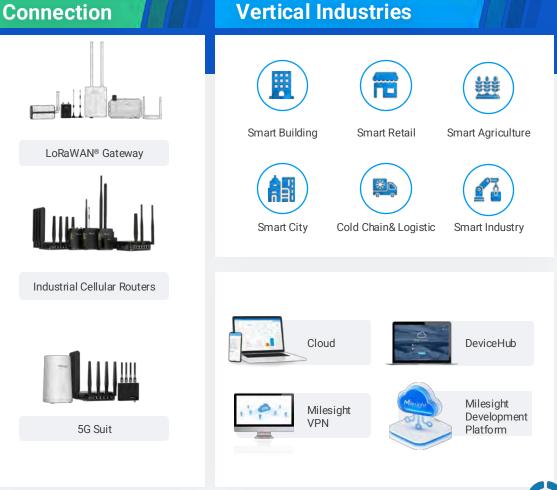


MILESIGHT PRODUCT PROFOLIO



Milesight is a multi-dimensional sensing products iot provider transforming how the world is perceived and connected, and delivering safety, efficiency, and business insights.







02 MILESIGHT IOT SMART BUILDING SOLUTION

People Sensing Driven Facility Management, Energy Management, and Space Management Solutions



MILESIGHT PEOPLE SENSING DRIVEN SMART BUILDING

The three main modules in Buildings are the core, and People Sensing empowers, creating a differentiated advantage.







Facility Management

Facility Protection & Maintenance

Efficiently Management Meter Retrofits Smart Restroom Management



Energy Management

HVAC Management

Lighting Management Energy Monitoring & Management



Value-Driven Space Management

Environmental Comfort	Office/Workspace	Smart Restroom
Improvement	Space Management	Comfort
People Caring	Human Well-being Certification Assistance	





Facility Management

Milesight









Smart Restroom Management





CT Series

Centralized HVAC Control



WT Series

Remote Metering



UC Series



EM300-DI

Restroom Cleaning Schedule Management



People Sensing

WS Series

HVAC Performance Monitoring



WT Series

HVAC Pipe Monitoring

IAQ Series



WS Series

Centralized Lighting Control



Restroom Supplies Management



WS Series

EM Series









Energy Management





HVAC Management

Unified Manual Dispatch & Local Automation Adjustment



WT Series

Data-Driven Control: Real-Time Local Interaction





IAQ&WS Series

VS Series

Data-Driven Control: Energy-Saving Strategy Optimization







CT Series

TS Series

EM Series



Lighting Management

Smart Lighting Control



WS Series



VS Series



Energy Monitoring

Data-Driven Control: Real-Time Local Interaction



WS Series

Data-Driven Control: Energy-Saving Strategy Optimization





WS Series

CT Series





pace Management 😚







Environmental Comfort



Workspace Management



People Caring



Smart Restroom Comfort

Temperature and Humidity Control



IAQ&EM Series



WT Series



VS Series

Space Optimization





VS&DS Series

Footfall Monitoring



VS Series

Human Comfort & Safety



VS373 Fall Detection

Restroom Air Quality Management



GS301

User Satisfaction Management







VS350

Noise Monitoring



WS302

GS601

(E-)Cigarette Detection

Sanitation Management





VS Series









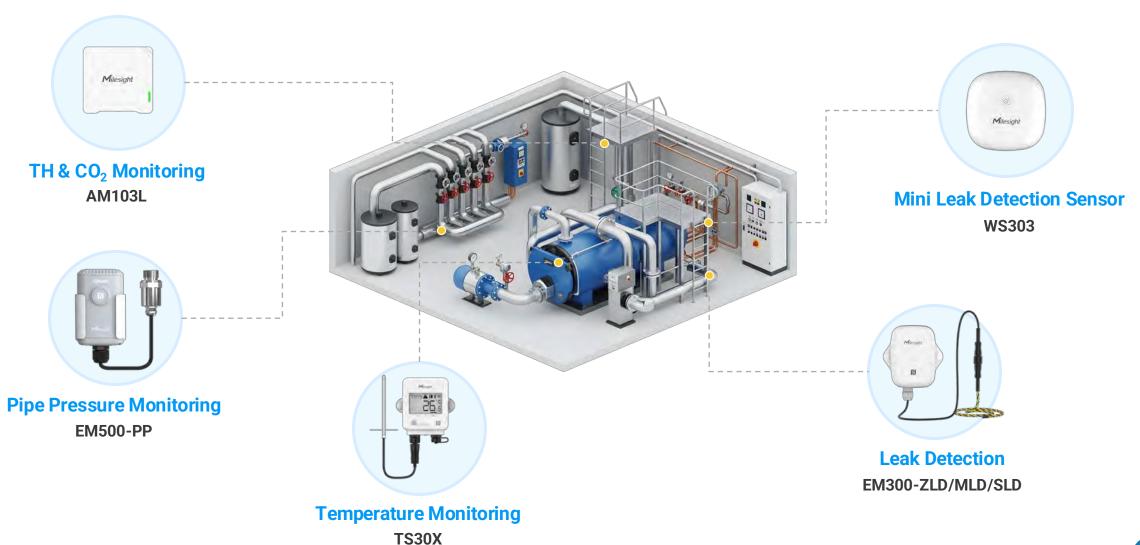
O3 MILESIGHT SMART BUILDING SOLUTION

Comprehensive IoT solutions designed to enable smart building



FACILITY PROTECTION & MAINTENANCE







FACILITY MANAGEMENT IN BUILDING





EM500-PP

Pipe Pressure Sensor

AM103L IAQ Sensor

TS30X

Temperature Sensor









Meeting Room

Class Room AM103L



- High Compatibility with Various Pipes
- G 1/2" Male Connection
- Shock, Vibration and Corrosion Resistance
- Measuring Range: 0 1600 kPa (16 Bar)
- Temperature Compensation for High Accuracy
- IP67(Transceiver)/IP65(Pressure Probe)
- 10 Years Battery Life

> Typical Application

- Detect Temperature & Humidity & CO₂
- On-site Alarm: LED & Emotion
- Battery Powered up to 4 Years
- Wireless Installation with Anti-Theft Protection





TS30X

> Typical Application

- Meet HACCP and 21 CFR Part 11B
- Certified for EN12830 Standard
- Different Types of Temperature Probes and one Magnetic Sensor for Collections
- Rugged Protection with IP65 Rating
- Average 3 Years Battery Life



WATER DAMAGE PREVENTION | EM300 & WS303







- IP67 & UV Resistance
- Easy Configuration via NFC
- Battery Life up to 10 years (except WS303)
- · Data Storage, Retrieval and Retransmission

Spot Leakage Detection Sensor

- Spot leak detection (2 Metal Probes)
- Built-in Temp. & Humidity Sensor
- Trigger once liquid level reaches 0.5mm







Zone Leakage Detection Sensor

- **Zone** leak detection (3m Detection Rope)
- Built-in Temp. & Humidity Sensor
- Non-locating leak detection cable







Mini Spot Leak Detection Sensor

- Spot leak detection (2 Metal Probes)
- A built-in buzzer for immediate warning locally
- Up to **5 Years** Battery Life (1 x Coin Cell Battery)
- Trigger once liquid level reaches **0.5mm**
- · Capacitor storage for power failure alarm





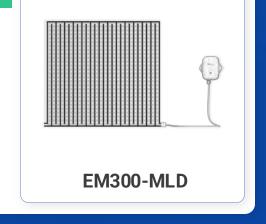


Membrane Leakage Detection Sensor

- Broader Zone leak detection (40x40cm default)
- Customizable, reusable adhesive membrane
- Easy buckle connection







EFFICIENT & HVAC MANAGEMENT







TS201 TEMPERATURE SENSOR

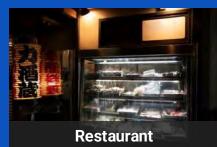
The TS201 is a compact temperature sensor. Its IP67 waterproof enclosure makes it ideal for applications in cold storage and various industrial processes. Experience precise temperature sensing with the versatile and durable TS201 sensor.

Applications















Glass Bead Thermal Buffer Bottle

Applications

- Provide **DS18B20** temperature probes (-55 \sim 125°C) with M12 interface
- Battery-powered with up to 3-year Battery Life
- Support optional glass bead thermal buffer bottle for insulation blocking and stable detection
- IP67 waterproof enclosure with high-quality probes enabling high stability and compatibility
- Support multiple mounting methods like magnetic mounting, 3M glue mounting and wall mounting for options



WT101 SMART RADIATOR THERMOSTAT

WT101 is a LoRaWAN®-based radiator valve with visualized LED and smart moderation and communicative triggers to optimize the heating regulation and save both energy and cost.











Radiator Management

Smart & Communicative

- Support up to 16 Heating Schedules within 1 pre-set Date
 Period
- Featuring LoRaWAN® for wireless transmission
- Support Open-window Detection and Anti-frost Protection

Reliable

- Provide **Protection-clip** for structural anti-theft protection
- Child-lock can prevent palm-rejection in public areas
- Support multi-way calibration while deploying it

Compatible

- Provide several Valve Adapters to be compatible with different types of valves
- Easy to deploy and configure without further steps

Efficient & HVAC Management Solution



UC 502 Multiple-interface Controller





- Rich Interfaces: GPIO, AI, Serial & SDI-12
- SDI-12 Interface for Environmental Data
 Acquisition (connect with weather sensors, hydrological sensors, soil sensors, etc.)
- IP68 rated enclosure for harsh environment
- Automatic triggering alerts and notifications
- External antenna(optional): LoRaWAN® version
- Support LoRaWAN® and NB-IOT/ LTE-M

WT30X Smart Fan Coil Thermostat





WT303/304 Replacement Principle

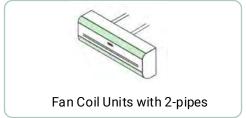
It can replace existing programmable thermostats for FCU fan coil units.

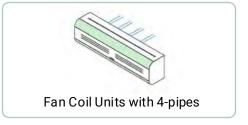
- Requires 110-250V AC power supply
- Must be connected with both Live and Neutral wires

Model Selection (WT303 vs. WT304)

Depends on system configuration:

- 2-pipe or 4-pipe system
- 2-wire/3-wire On/Off Motorized valve or 0–10V PI modulating valve
- 1–3 speed fan or ECM fan (electronically commutated)







HVAC CONTROL & OPTIMIZATION







SMART RADIATOR THERMOSTAT

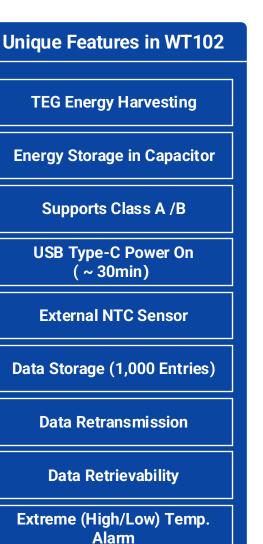




WT101 and WT102 deliver intelligent heating control based on precise room temperature monitoring, offered as coexisting models with distinct market positioning.









WT401 WIRELESS SMART THERMOSTAT





1 User-friendly Operation Panel

- 2.7-inch E-ink screen with intuitive operation panel for both convenience and aesthetics
- Wireless design with up to 3-year Battery Life and flexible wall-mount compatibility (60/86/118/120mm boxes)
- · Integrated temperature, humidity, and PIR sensors for precise climate and presence detection
- · Support open-window detection and freeze protection for improved energy efficiency and user comfort
- Support up to 8 programmable temperature plans and customizable button functions for scenariobased operation
- · Wall-mounted anti-theft design and child lock function for secure and worry-free usage

(2) High Compatibility & Flexible Connectivity

- Support NFC (Toolbox) or BLE Configuration
- Support BLE or PowerBus for Communicating with UC7xx Controllers; LoRaWAN Communication with WT101/102
- Support Multiple Power Sources: Battery, Powerbus (24V DC), 24V AC, or Type-C Interface
- Support Matching with Different HVAC Controllers Covering Different HVAC Systems









TS60X TEMPERATURE & HUMIDITY SENSOR

CAT.1

Upcoming

> Highly Adaptable to Cold Chain Transportation Applications

- 1 Multiple Sensors Ensure the Reliability of Product Transportation
- Light Sensor: Monitors unpacking and light changes, aids refrigeration system detection and lighting threshold alarming make anti-theft alarming while open the truck door abnormally
- Tilt Sensor: Detects cargo tipping, alerts promptly, ensures transportation safety.
- 2 Supports Various External Probes, including PT100 DS18B20 TH Probes
- (3) Automatic Historical Data Retransmission secure local data.
- (4) Batter-powered Device with Up to 3-year Battery Life
- (5) High scenario adaptability with high IP67 rating and FDA-approved materials

Data Effectiveness & Security

- (1) Certified for EN12830 Standard
- (2) Store up to 5,000 historical records locally

Probe	PT100		DS18B20	TH Probe
Probe Model		10-125-150 5-500-150	SP12-125-150	SP13-125-200
Measurement Range	-40°C~125°C -200°C -50°C~500°C	C~50°C	-40°C~125°C	-40.0°C ~ +125.0°C (RH)0.0% ~ 100.0%



Cellular Triangulation Positioning



POWER CONSUMPTION MONITORING







WS502 SMART WALL SWITCH D2D

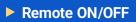




Electricity Consumption Monitoring and Light Control













- Various Types with 3-Wire with Neutral /2-Wire without Neutral
- Turn on/off devices on site and create timing switch-on/off schedules remotely
- Collect current(mA), voltage(VAC), power factor(%), power(W) and power consumption(kWh) (3-wire with Neutral only)
- Support surge and overload protection
- Support local or remote control via high-reliability relay
- · Built-in LED indicator, easy to use in dark environment

CT105 SINGLE-PHASE CURRENT TRANSFORMER



Powered directly by the circuit under testing, no batteries are required (USB Type-C also available)



Non-intrusive and quick installation process ensures no damage to the circuit or disruption of power supply.



Support up to 3.3kHz sampling frequency for reaching a higher accuracy for current value measurement



Allows for determining energy consumption direction and offers automatic calculation of cumulative ampere-hour values once per second.



Users are allowed to input the nominal voltage(V) & power factor($\cos \Phi$) to calculate the general power consumption (W) and get informed by the tendency of changes and abnormities. (will be supported by cloud)



With its compact design and powerful features, it is easily installed in various settings.





ENVIRONMENTAL COMFORT







PEOPLE COUNTING & INDOOR AMBIENCE MONITORING



VS121 AI Workplace Occupancy Sensor

- **Accurate Counting using Stereo Vision**
- Type-C (LoRaWNA®) or PoE versions
- Up to 98% High Accuracy
- Large detection area: 3 Height (78m²)
- 100% Anonymous Detection (Compliant with GDPR)
- Low Ceiling, Strong Shadow, Hovering Passenger











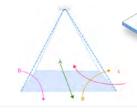




Blur Mode & Privacy Mask



Line Cross Counting



People Flow Analysis









AM308 8-in-1 IAQ Sensor

- 8 Sensors in 1
- · Optional 4.2 Inch E-ink Screen
- · Traffic Light Indicator & Buzzer
- · Anti-theft Protection
- Vivid Fmoticon Indication
- · Battery Life up to 1 Year







WORKSPACE MANAGEMENT







IMPROVING CONVENIENCE AND COMFORT



WS101 LoRaWAN® Smart Button





Meeting Room Curtain Control

WS101

> Typical Application

- · No Wires, No Charging, No SIM
- · Work as a control, trigger or alarm device
- Multiple Actions (single, double, long press)
- Support Milesight D2D (Master)
- Built-in LED indicator and buzzer
- Over 5 of Years Battery Life (10 presses/day)

VS135 AI ToF People Counting Sensor





Retail Store, Shopping Mall

VS135

> Typical Application

- Up to 99.8% accurate counting
- Better Heat Dispassion
- Higher Ceiling Mount Version (up to 6.5m)
- · Multi-sensor Integration
- a) Radar Sensor: Detect and quickly switch from sleep to work mode.
- b) <u>Triaxial Sensor:</u> Automatic compensation of person height values when the device is mounted at a tilt.





O4 SUC Worldwide su

SUCCESS STORIES

Worldwide success stories reveal how the solution truly satisfies customer needs for great performance



REVITALIZING ENERGY EFFICIENCY AT THE HISTORIC THEATER







Location

Rome, Italy



Background & Challenges

A historic theater in Rome faced difficulties optimizing energy use and managing guest flow due to its aged infrastructure, thick walls, and preservation constraints. Challenges included poor air quality, limited occupancy data, and cabling difficulties.



Solutions & Products & Benefits

LEARN MORE

This project helped enhance the theater's sustainability, improve the guest experience, and increase operational efficiency.

- Reduced energy costs: Optimized HVAC and lighting systems lowered overall energy consumption
- Enhanced guest comfort and flow management: Real-time occupancy and people counting improved space utilization and visitor experience
- **Preserved historic building integrity:** Wireless, battery-powered sensors avoided invasive installations and maintained the theater's heritage

- 175 * WS202 PIR & Light Sensors Occupany monitoring & light control in balconies and bathrooms
- 50* AM307/ EM500-CO₂/ EM300-TH Sensors Real-time air quality monitoring for optimal audience comfort
- 17 * VS133 People Counting Sensors GDPR-compliant people counting at bar and entrance for people flow management
- 11 * UC100/ UC300 IoT Controllers Integrate sensors for centralized environment and energy control
- 4 * UG65 LoRaWAN® Gateways Wireless data transmission for reliable connectivity













SMART ENERGY & HEAT CONSUMPTION MONITORING FOR BETTER EFFICIENCY







Location

Trieste, Italy



Background & Challenges

Over 100 residential buildings needed a non-intrusive way to monitor electricity and heat usage. Due to tenant presence and high retrofit costs, a wireless solution compatible with Niagara BMS was required for real-time and centralized monitoring.



Solutions & Products & Benefits

LEARN MORE

This project helped the building management efficiently digitize legacy boiler rooms and improve energy operations with seamless **BACnet** over LoRaWAN® integration.

- Seamless BMS Integration: BACnet/IP gateways connected legacy Modbus meters to Niagara BMS without rewiring
- Centralized Energy Oversight: Real-time consumption and heat data from 100+ buildings consolidated on a single platform
- Non-Intrusive & Cost-Efficient: Wireless setup avoided tenant disruption, reduced retrofit time and expense

- 121* UC100 LoRaWAN® Controllers Collect data via Modbus from the field instruments in mechanical rooms and boiler rooms
- 84 * UG56 LoRaWAN® Gateways Transmit data over LoRaWAN® and convert to BACnet/IP for BMS integration









REVOLUTIONIZING THE MANAGEMENT OF A CONCERT HALL







Location Spain



Background & Challenges

In the entertainment industry, venue management faces increasing demands for energy efficiency, environmental quality, and customer experience. A renowned concert hall in Spain turned to IoT solutions to address these challenges.



Solutions & Products & Benefits



This project helped the concert hall in Spain enhance operational efficiency and improve the overall audience experience.

- Optimized Energy Management: Real-time electricity monitoring for smarter energy usage and cost savings
- Improved Environmental Comfort: Better air quality and sound level control for enhanced visitor comfort
- · Smarter Space Management: Accurate people counting for efficient crowd control

- VS133 AI ToF People Counting Sensor Real-time foot traffic monitoring for efficient crowd management
- CT101 Smart Current Transformer Non-intrusive, real-time power consumption monitoring for efficient energy control
- AM103 IAQ Sensor Real-time air quality monitoring for enhanced comfort
- WS302 Sound Level Sensor Noise monitoring for optimal sound level

















TEMPERATURE MONITORING IN SUPERMARKETS







LocationAustria



Background & Challenges

A leading supermarket chain in Austria needed reliable, automated temperature monitoring to ensure food safety, comply with regulations, and quickly detect refrigeration issues across 150+ stores.



Solutions & Products & Benefits

LEARN MORE

This project helped ensure safe food storage and operational efficiency by deploying over 4.000 sensors across

150+ supermarket branches in Austria.

- Safer Food Storage Conditions: Accurate temp & humidity monitoring keeps food safe and compliant
- · Increased Operational Efficiency: Centralized monitoring and real-time alerts for quick response
- Energy Savings: Data-driven adjustment of cooling systems to reduce energy consumption
- Failure Prevention: Early detection of refrigeration issues minimized product loss and downtime

Missigne

- 3000+ pcs EM300-TH Temperature & Humidity Sensor Temp & humidity monitoring in refrigerated counters and shelves for safe storage
- 1000+ pcs EM500-PT100 Temperature Sensor Precise freezer temperature tracking with early fault detection







