

Milesight Drives Forward IoT-based Smart City Solutions

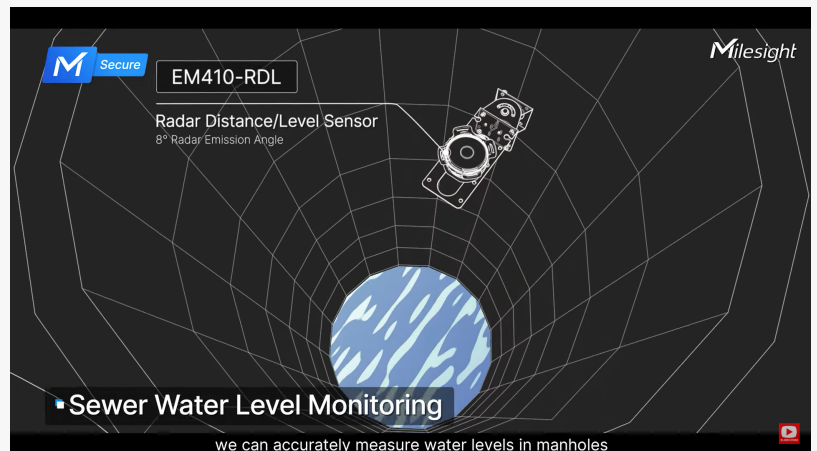
XIAMEN, FUJIAN, CHINA, November 26, 2024 /EINPresswire.com/ -- In today's rapidly evolving urban landscapes, creating smarter, safer, and more sustainable cities is more important than ever. Urban centers face significant challenges—whether it's disaster prediction and early warning systems, efficient asset management, or ensuring the safety of residents. As populations grow and environmental risks increase, cities are struggling to keep pace with demands for more resilient, safe, and sustainable infrastructure. Managing public resources efficiently and responding to emergencies in real time are becoming critical for urban survival. Milesight is leading the way with IoT-based [smart city](#) solutions that enhance public safety, optimize utilities, and promote sustainability, all while making urban living a smarter, more livable experience for everyone.

The "Smart" Key to a Safe and Sustainable City

Milesight's IoT technology empowers cities to better manage public assets, resources, spaces, safety, and environmental factors, all while supporting sustainability goals. By integrating advanced smart sensors, urban centers can monitor critical infrastructure in real time, predict potential issues, and ensure that public services run seamlessly.



Milesight Smart City Evolution



Smart City Water Level Measurement EM410-RDL



Smart City Water Level Measurement

Public Assets: Urban Sewer Management

Effective management of urban sewer systems is essential for improving public health and environmental sustainability. Milesight's [EM410-RDL](#) Radar Distance Level Sensor and EM500-CO2 Carbon Dioxide Sensor work together to offer an energy-efficient solution that monitor sewer infrastructure in real-time. The EM410-RDL Radar Distance Level Sensor measures water levels in sewer systems, detecting potential blockages or overflows, while the EM500 CO2 sensor to monitor environmental conditions, potential pest issues can be predicted, such as the breeding of mosquitoes in high-temperature environments. This allows for timely pest control measures, helping to protect public health.

Related Product :

EM410-RDL Radar Distance Level Sensor

EM500-CO2 Sensor

Public Resources: Smart Water Meter

Water is one of the most critical resources in any urban environment, and efficient management is key to sustainability. Milesight's X1 Sensing Camera, UC300 IoT Controller, and EM300-DI Pulse Counter provide cities with real-time monitoring capabilities to collect data for water consumption and distribution. These technologies allow for precise tracking of water usage, early detection of leaks, and enhanced control over water resources, ensuring that urban water systems remain efficient and sustainable.

Related Product :

X1 Sensing Camera

UC300 IoT Controller

EM300-DI Pulse Counter

Public Resources: Smart Waste Bins

Waste management is an integral part of keeping cities clean and efficient. Milesight's EM400-TLD ToF Laser Distance Sensor and EM400-MUD Multifunctional Ultrasonic Distance Sensor are essential in smart waste bin management. These sensors measure the fill level of waste bins and optimize waste collection schedules by providing real-time data. As a result, cities can reduce operational costs, optimize waste management workflows, and decrease their environmental impact.

Related Product :

EM400-MUD Multifunctional Ultrasonic Distance Sensor

EM400-TLD ToF Laser Distance Sensor

Public Spaces: Smart Parking Management

With increasing urbanization, parking management is becoming a challenge in many cities. Milesight's EM310-UDL Ultrasonic Distance/Level Sensor, EM400-MUD Multifunctional Ultrasonic Distance Sensor, and PM3322-E Indoor Parking Guidance Camera provide comprehensive solutions for efficient parking management. Leveraging the power of smart technology, these devices monitor the availability of parking spaces and guide drivers to open spots, improving

traffic flow, reducing traffic congestion and improving urban mobility.

Related Product :

EM400-MUD Multifunctional Ultrasonic Distance Sensor

PM3322-E Indoor Parking Guidance Camera

Public Safety: Water Level Monitoring

Flooding is one of the most dangerous risks that urban areas face, especially in regions prone to heavy rainfall. To protect residents and infrastructure, Milesight's EM410-RDL Radar Distance Level Sensor, EM400/EM500-UDL Ultrasonic Distance/Level Sensors, and EM500-SWL Submersible Water Level Sensor offer real-time water level monitoring in rivers, lakes, and drainage systems. These solutions enable cities to respond proactively to rising water levels, reducing energy consumption, preventing flooding and reducing property damage.

Related Product :

EM410-RDL Radar Distance Level Sensor

EM400/EM500-UDL Ultrasonic Distance/Level Sensors

EM500-SWL Submersible Water Level Sensor

Public Environmental Management: Urban Green Space Management

Urban green spaces play a vital role in maintaining environmental health and improving residents' quality of life. Milesight's EM400-UDL Ultrasonic Distance Sensor, EM500-SWL Submersible Water Level Sensor, and UC511 & UC512 Solenoid Valve Controllers work together to manage water usage in urban parks and green spaces. These sensors help ensure that green areas are watered efficiently, promoting sustainability and reducing water wastage in urban landscapes.

Related Product :

EM400-UDL Ultrasonic Distance Sensor

EM500-SWL Submersible Water Level Sensor

UC511 & UC512 Solenoid Valve Controllers

At the core of many smart city innovations is LoRaWAN (Long Range Wide Area Network), a low-power, wide-area network protocol designed to support the massive scale of IoT devices deployed across urban environments. LoRaWAN offers unmatched long-range connectivity while consuming minimal energy, making it ideal for monitoring critical infrastructure, managing public resources, and ensuring the safety of residents. By connecting thousands of IoT sensors and devices, LoRaWAN enables real-time data collection and analysis, empowering city officials to make informed decisions and respond proactively to urban challenges. Whether it's optimizing waste collection, monitoring environmental conditions, or ensuring public safety, LoRaWAN is the backbone that connects smart city solutions, offers data-driven insights, creating more efficient, sustainable, and livable urban spaces.

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