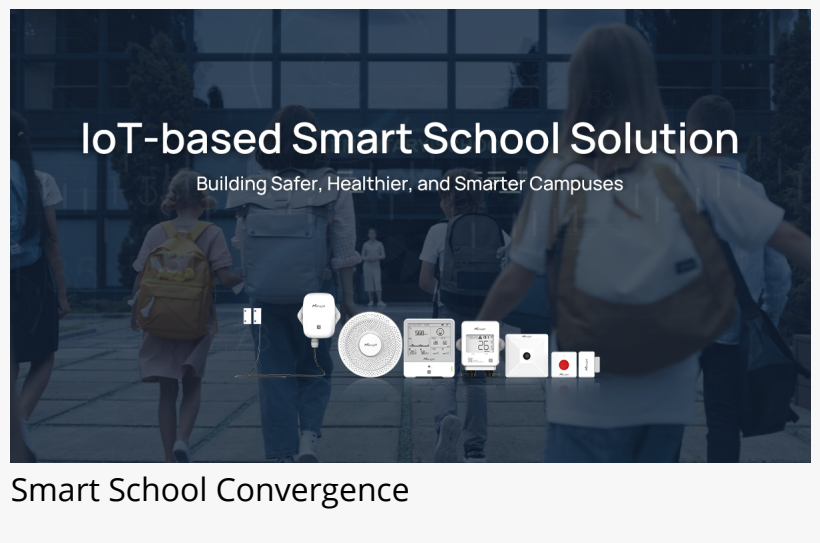# Building Safer, Healthier, and Smarter Campuses with IoT-based Smart School Solution

XIAMEN, FUJIAN, CHINA, December 18, 2024 /EINPresswire.com/ -- Creating an intelligent, connected, and secure educational environment is now possible with IoT-driven smart school solutions. Milesight focus on three essential aspects: personal safety, personal health, and property safety, ensuring a comprehensive upgrade to the traditional campus experience.

IoT-based Smart School Solution
Building Safer, Healthier, and Smarter Campuses

Smart School Convergence

Detailed Insights into Personal Safety for Smart Schools

Personal safety in a school environment goes beyond traditional security measures. With IoT-powered solutions, campuses can proactively identify threats, prevent unauthorized activities, and respond swiftly to emergencies. Here's a deeper look at how smart school solutions enhance personal safety.

Safeguarding Sensitive Areas

Emergencies like fires, school shootings, or gang fights require rapid action. Milesight's devices provide immediate alerts and enable automated safety protocols to minimize risks.

The Milesight WS101 Smart Button is a compact, wireless design suitable for installation across classrooms, halls, and offices. This One-touch activation is for emergency alarms and notifications. And it allows instant communication with administrators and first responders via LoRaWAN® networks. Besides, with WS136/WS156 Smart Scene Panels, the multi-functional panels for triggering pre-configured responses, such as lockdowns or alarm activations. It is a reliable and long-range connectivity to support large school campuses.

On the other hand, unauthorized access to critical areas, such as chemical storage rooms, IT server rooms, and laboratories, poses significant risks. IoT solutions ensure these spaces remain

secure through real-time monitoring and alerts.

Leveraging the power of Milesight EM300-MCS and WS301, the open/close statuses of door and window can be detected and flag unauthorized entries or tampering attempts. Also, users can customizae alerts, and the notifications can be tailored for specific times or conditions, ensuring no access violations go unnoticed.

Monitoring Student Commutes

Ensuring safety during transit is as crucial as securing the campus itself. IoT solutions for transportation safety enhance visibility into student movement and provide real-time updates. The sensors like VS121 monitor student occupancy on buses, ensuring no child is left behind during pickups or drop-offs. School administrators and parents can track bus locations and student boarding status for enhanced peace of mind. Also, for incidents alerts, it can detect and alert on unusual events, such as overcrowding or long periods of inactivity.

Products:

WS101 Smart Button
WS136/WS156 Smart Scene Panels
EM300-MCS Magnetic Contact Switch
WS301 Magnetic Contact Switch
VS121 AI Workpace Occupancy Sensor

Precision Monitoring and Environmental Control For Personal Health

Vaping and smoking not only violate school policies but also pose significant health risks to students and staff. IoT devices can monitor and detect such activities in real time, enabling prompt intervention. Advanced sensors identify the presence of e-cigarette vapors in restrooms, classrooms, and other areas, for example, GS301 Bathroom Odor Detector and GS601 Vape Detector. They can detect smoke from cigarettes or other sources, helping prevent fires or exposure to harmful toxins. Favored by its innovative design, automated notifications inform school staff immediately, while usage patterns can be logged for analysis.

For indoor air quality and comfort, a comfortable and healthy indoor environment significantly enhances learning efficiency and well-being. IoT solutions provide continuous monitoring and optimization of air quality, temperature, and humidity. With Milesight AM103 and AM308 IAQ sensor, they can help detect and regulate CO_2 levels, VOC, sound level and particulate matter to ensure fresh and breathable air. Also, it help maintain optimal comfort for students and staff, reducing distractions caused by discomfort. Adjust conditions dynamically based on occupancy, outdoor climate, or time of day to maximize learning outcomes can be achieved as well.

Asset Protection with Smart Alerts

Sensitive school assets, such as IT equipment, lab supplies, and archival documents, can be damaged by fluctuations in temperature or humidity. IoT sensors ensure these conditions are monitored and controlled. To realize real-time monitoring , the EM320-TH Temperature and Humidity Sensor, TS302 LoRaWAN® Temperature Sensor, TS201 Cost-effective Temperature Sensor can track environmental conditions in critical areas such as server rooms, libraries, and labs. The threshold alerts can be triggered, and immediate notifications would be sent out when temperature or humidity levels exceed safe thresholds, preventing damage. And it assists in reduce manual intervention, for the reason the automated systems minimize the need for frequent physical checks by staff.

Preventing water damage should be determined as well. Leaks in restrooms, laboratories, and server rooms can lead to property damage, operational disruptions, and safety hazards. IoT solutions provide timely detection and response. Milesight EM300-SLD Spot Leakage Detection Sensor, EM300-ZLD Zone Leakage Detection Sensor, EM300-MLD Membrane Leakage Detection Sensor and WS303 Mini Leak Detection Sensors identify water leakage in real time, preventing damage before it escalates. It is suitable for installation in restrooms, labs, HVAC systems, and other vulnerable areas. The maintenance optimization can be easy. Data-driven insights help prioritize repairs and reduce unnecessary inspections.

Schools manage a wide range of valuable assets, from laptops and lab equipment to furniture and supplies. IoT solutions ensure these assets are tracked, utilized efficiently, and protected from theft. Milesight AT101 Outdoor Asset Tracker can enable asset monitoring with real-time location tracking of movable assets prevents loss or theft. It streamlines inventory management for assets, reducing manual record-keeping and gain insights into how assets are utilized, optimizing their deployment and maintenance schedules.

Products:

GS301 Bathroom Odor Detector
GS601 Vape Detector
AM103 3-in-1 IAQ Sensor
AM308 8-in-1 IAQ Sensor
WS302 Sound Level Sensor
EM320-TH Temperature and Humidity Sensor
EM300-SLD Spot Leakage Detection Sensor
EM300-ZLD Zone Leakage Detection Sensor
EM300-MLD Membrane Leakage Detection Sensor
WS303 Mini Leak Detection Sensor
AT101 Outdoor Asset Tracker
TS201 Cost-effective Temperature Sensor
TS302 LoRaWAN® Temperature Sensor

Milesight's comprehensive IoT solutions are paving the way for a safer, healthier, and more efficient learning environment. By integrating advanced technologies into campus operations, schools can ensure personal safety, promote student well-being, and protect valuable assets with ease. From real-time emergency response systems and air quality monitoring to automated access control and property management, our solutions empower schools to overcome challenges and embrace a smarter future.

As education evolves, the need for secure, technology-driven campuses will only grow. With Milesight's IoT ecosystem, schools are equipped to create innovative, connected environments where students can thrive academically and socially. Together, we are redefining what it means to be a truly smart school.

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