

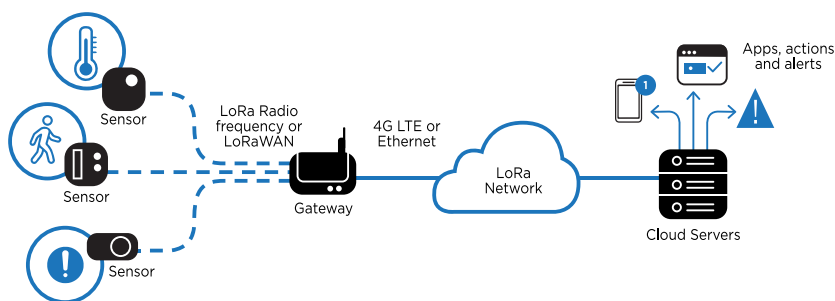


# IoT Solutions for Education



## What is IoT?

The Internet of Things (IoT) is a network of physical objects embedded with software and sensors that use the internet to communicate and exchange data with other systems. IoT is revolutionizing the way businesses operate through sensors that can monitor things like motion, light, temperature, moisture, air quality, and more. These sensors enable businesses to anticipate potential needs before they arise, ultimately saving time and money. With IoT, companies can gain real-time access to critical information from any location.



## IoT for Education

Providing students with the knowledge and tools they'll need to become tomorrow's leaders is the top priority in education. However, as technology evolves, so do the needs of students, teachers, and stakeholders. As the education sector works to adjust to these changes, it faces several internal issues, including personnel shortages, a lack of finances to modernize obsolete equipment, and rising education expenses. Telesystem is assisting the education industry in solving these issues by providing a portfolio of plug-and-play IoT solutions designed to reduce error, increase safety and productivity, lower maintenance costs, and improve overall student and staff experiences.

Our IoT solutions solve unique and complex remote monitoring challenges while reducing human error by combining efficient wireless sensors and gateways with industry-leading monitoring applications, real-time reporting, and instant SMS text message alerts.



**Predictive Maintenance:** Prevent failures, reduce downtime, and save money with wireless sensors that monitor motors, compressors, pumps, and more.



**Tool and Asset Tracking:** 24/7 on-demand location tracking and reporting for high-value indoor assets.



**Panic Button System Alert:** Ensure employee and student safety. Place buttons on walls, under desks, or lanyards, when activated text message and email alerts are sent in case of emergencies.



**Leak Detection:** Receive alerts when water is detected in areas such as water heaters, sinks, utility, closets, and bathrooms.



**Refrigeration Monitoring:** Monitor temperature conditions of walk-in coolers, freezers, and other food storage areas to maintain proper food safety.



**Motion Detection:** Detects the movement of people, animals, and objects indoors in real-time while monitoring ambient temperature and light to track occupancy and ensure comfort.



**Door Barricade Monitoring:** Increase protection during dangerous intruder events. Know when a lockdown is triggered, remotely visualize the building, and take swift action. Works with NightLock.



**Smoke Detection:** Wireless smoke sensors with 3+ year battery life to stay compliant without the complexity of wiring.



**Waste/Bin monitoring:** Wireless sensors retrofit existing indoor and outdoor bins to detect and alert on statuses for full/empty bins, flame risk, or fall.



**Desk Occupancy:** Sensors are placed under tables to determine when and how long they are occupied and learn how spaces are being utilized.



**Gas Monitoring:** Customized wireless sensors measure CO2 and any other gases PPM (Parts Per Million).

## Features of IoT for Education

**Quick & Easy Setup:** Wireless sensors are installed in minutes.

**Solutions & Devices:** Bundled sensors, gateways, connectivity, and software.

**Web-Based Dashboard:** Single pane of glass interface to manage and monitor all sensors, optimized for desktop and mobile devices.

**Actionable Alerts:** Timely alerts via SMS text messages and emails. Set sensor reading thresholds and configure alert settings.

**End-to-End Encryption:** All data is fully encrypted utilizing Secure Socket Layer (SSL) protocol with 256-bit data encryption.

**Simple Reporting:** View various reports within the dashboard including Summary Reports, Corrective Action Reports, Regulatory Reports, Incident Reports, Predictive Maintenance Reports, or customizable reports.



MESSAGE

now

+1 (555) 395 0911

Alert: Emergency has been pressed. Location: Room 111. 8:14 AM, Aug 28. Reply '1' to stop receiving this alert.

