# IoT Solutions
for Manufacturing

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.
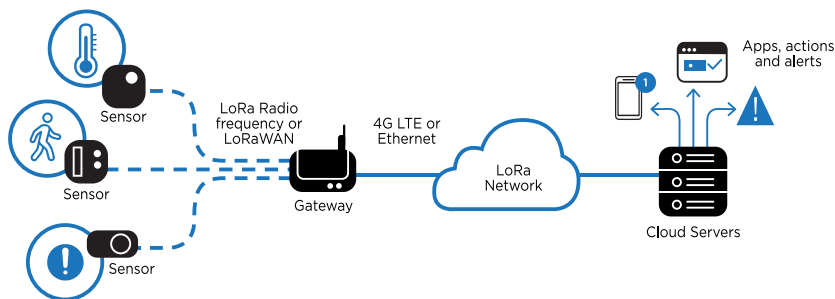
IoT for Manufacturing

For decades, the manufacturing industry has been the backbone of economic growth and development. As technology advances and marketplace demands rapidly shift, the manufacturing sector is under constant pressure to increase efficiency and productivity while simultaneously reducing prices. Additionally, they are confronted with internal challenges such as supply chain disruptions, rising material costs, and staff shortages. Telesystem assists the manufacturing sector in tackling these issues by providing a suite of plug-and-play IoT solutions designed to minimize the room for error, improve employee safety, reduce maintenance costs, and maximize efficiencies.

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.

Modbus: Optimize building management systems with Modbus data to decrease energy use and reduce operating expenses across any plant.

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

Lone Worker Safety: Ensure employee safety in the workplace by providing wearable buttons that alert personnel in case of an emergency and accurately report location.

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

Tank Level Monitoring: Utilize sensors above a surface that may rise or fall over time to measure and receive alerts on materials bins, water levels, and other tank types.

Indoor Air Quality: Meet air quality regulations and protect customer and employee health with indoor air quality monitoring.

Energy monitoring: Reduce power consumption through efficient metering. Increased consumption monitoring and streamlined data collection allow for lower energy bills.

Features of IoT for Manufacturing

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.

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