

Manufacturing &amp; Industrial Processes

# Real-Time Temperature Monitoring Solutions for Reliable Industrial Operations

Ensure continuous visibility of critical industrial temperatures with real-time monitoring solutions. Receive instant alerts to prevent equipment failure, process deviations, and operational downtime. Improve reliability, safety, and performance across manufacturing and industrial environments.



# Transforming Operations Through Intelligent Monitoring

In **critical industrial environments**, performance, safety, and compliance are not choices — they are necessities. Our **intelligent monitoring** and **data logging solutions** provide **real-time visibility**, instant alerts, and audit-ready records to help organizations operate efficiently, protect assets, and meet regulatory requirements with confidence.



## Production Line Temperature Monitoring

- Real-time monitoring of machine and process temperatures
- Instant alerts for abnormal temperature conditions
- Reduced machine downtime and product defects
- Improved overall production stability

## Industrial Equipment Health Monitoring

- Continuous temperature tracking of motors and machinery
- Early fault detection through thermal trend analysis
- Support for predictive maintenance strategies
- Enhanced equipment lifespan and reliability



## Process Temperature Control

- Precise temperature monitoring for sensitive industrial processes
- Improved product consistency and batch quality
- Automatic deviation alerts and reporting
- Compliance with industry process standards



## Furnace, Boiler & Kiln Monitoring

- Real-time temperature tracking of high-heat equipment
- Early warning for overheating and unsafe conditions
- Improved energy efficiency and fuel utilization
- Enhanced operational safety and equipment protection



## Cold Storage & Controlled Warehouses

- Continuous monitoring of storage environment temperature
- Protection of raw materials and finished goods
- Reduction of spoilage and inventory losses
- Audit-ready temperature data logging

## Purpose

### Why Monitoring Is Mandatory?

#### Ensuring Safety, Compliance, and Operational Excellence Through Real-Time Monitoring

- Continuous monitoring is essential to **prevent failures, ensure safety, and maintain product quality**.
- By capturing **real-time data** on critical parameters such as **temperature and humidity**, organizations can **protect assets, comply with regulations**, and make **data-driven decisions** that enhance operational efficiency and reliability.



Ensure Product Quality



Regulatory Compliance



Prevent Equip., Failures



Safety & Risk Mitigation



Data-Driven Operational

## Data Loggers Deployment

#### Deploying Data Loggers for Maximum Efficiency

- Continuous Monitoring & Real-Time Alerts** — Our data loggers provide 24/7 tracking of critical parameters like temperature, humidity, and equipment status, delivering instant alerts to prevent deviations, protect assets, and maintain product integrity.
- Compliance, Traceability & Operational Optimization** — Deployed across production lines, cold storage, and controlled environments, our data loggers deliver audit-ready records to ensure regulatory compliance and improve process efficiency.



Sensor Probes

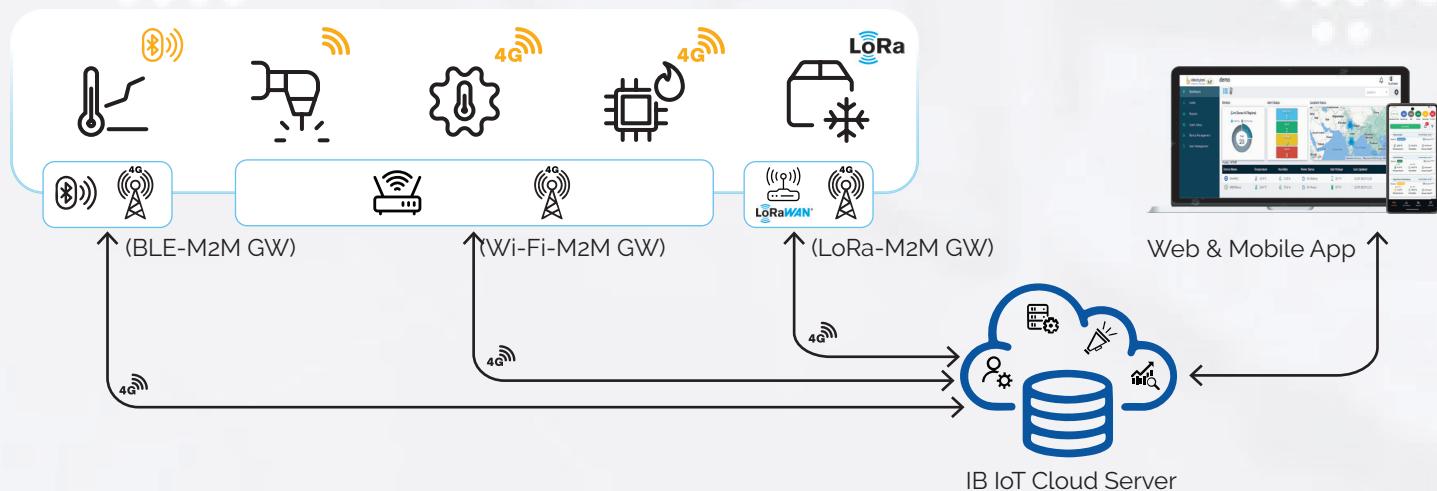


Data Loggers



Gateways

## Solution Architecture



## Comprehensive Device Compatibility Across All Monitoring Needs

Our wide range of data loggers delivers real-time monitoring with alerts and audit-ready records, ensuring safety, efficiency, and compliance across manufacturing, cold storage, pharmaceuticals, and industrial environments.

<https://www.ideabytesiot.com/products>

Model No	Gateway	Temperature Range	Humidity Range
IBI-WTH120/ IBI-MTH120	Wi-Fi/4G	-40°C to +120°C	2 to 99% RH
IBI-WTH50/ IBI-MTH50	Wi-Fi/4G	0°C to +50°C	0 to 100% RH
IBI-WTH70/ IBI-MTH70	Wi-Fi/4G	-30°C to +70°C	0% to 95% RH
IBI-MTH120-CN	4G/GPS	Upto +120°C	0% to 100% RH
IBI-MT120-CN	4G/GPS	Upto +120°C	-
IBI-WT350/ IBI-MT350	Wi-Fi/4G	-200°C to +350°C	-
IBI-WT120/ IBI-MT120	Wi-Fi/4G	-40°C to +120°C	-
IBI-WTD120/ IBI-MTD120	Wi-Fi/4G	-40°C to +120°C	-

### Hardware Features\*

- 1.3" 128x64 OLED Monochrome Display
- 4000 mAh Li-Ion Battery (Up to 20 hrs backup)
- Plug & Play, Wall-Mountable Design
- Configurable Data Polling
- Configurable Internal Data Storage
- 5V/1A DC Power Input
- IP64-Rated Enclosure

### Software Features\*

- Dashboard, Map & List Views
- Analytics, Device & User Management
- Alerts & Notifications
- Audit Trail, Alarm Logs & Trend Graphs
- Configurable Data Polling (Default: 15 mins)
- Optional SMS Alerts
- Web & Mobile Apps (iOS & Android)

\*Features and specifications vary according to selected model