

Manufacturing & 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

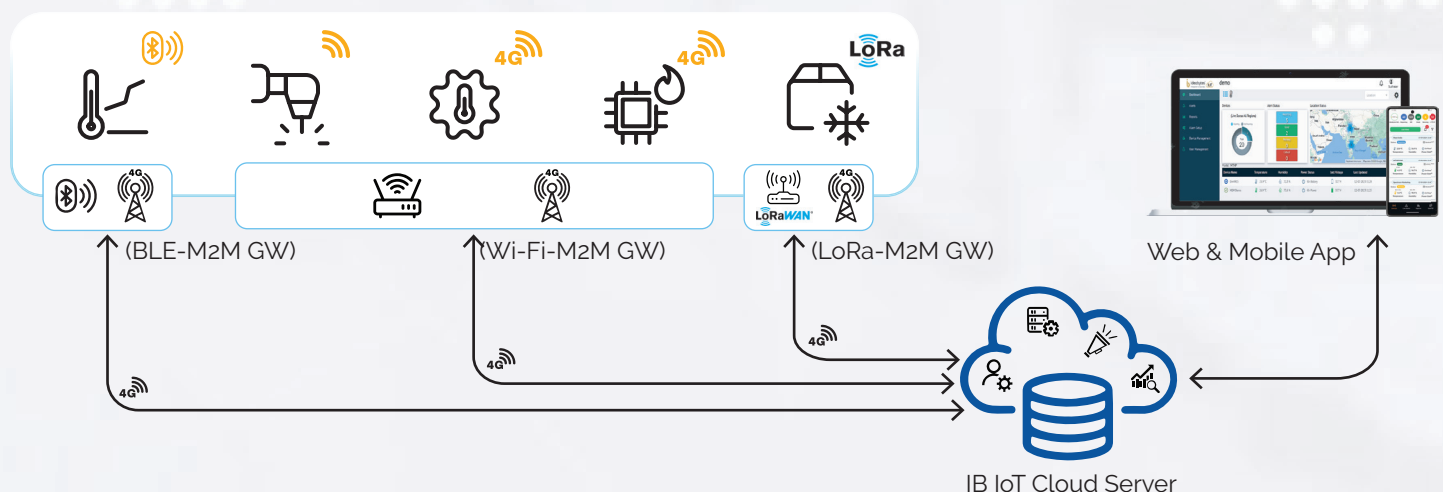


Data Loggers



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.idealbytesiot.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