

IoT-enabled Warehouse Monitoring System for Complete Visibility

prompt[®]
WARE
WATCH
IoT-Based Warehouse Monitoring System





INTRODUCING **WAREWATCH**

An IoT-Based Device to Monitor Warehouse

Warewatch is an advanced warehouse monitoring solution, it continuously tracks critical parameters such as temperature, AC mains status, and door open/close events and stores data locally and syncing it to the cloud in real time.

Accessible via a centralized dashboard and mobile app, Warewatch enables 24/7 monitoring, instant alerts, and data-driven decision-making. With automated notifications and audit-ready reports, it delivers precision, transparency, and complete control over your warehouse operations.

Challenges in Warehouse Monitoring

Cold storage facilities face several operational risks that can lead to product loss, regulatory issues, and inefficiencies. Manual systems lack visibility, consistency, and responsiveness making real-time management difficult.

Temperature Fluctuations	Unauthorized Access	Power Failure	Limited Visibility	Delayed Response Time
Inconsistent cooling can lead to spoilage of dairy, pharmaceutical, and frozen products, while delayed manual checks make it difficult to detect temperature deviations in time.	Lack of door monitoring increases the risk of theft, tampering, or mishandling, while off-schedule entries often go undetected without real-time alert systems.	Sudden power outages affect refrigeration and ventilation, compromising product quality.	Without real-time data, storage conditions can't be tracked proactively. Monitoring multiple warehouse sites becomes difficult and inefficient.	Delayed detection of abnormal conditions results in irreversible losses, also preventing timely interventions and damage control.

Features



Real-Time Temperature Monitoring

Tracks temperature, power, and door status with cloud backup.



Mobile App + Web Dashboard

View live data, receive alerts, and generate reports anytime.



Power & Door Monitoring

Captures real-time door activity and AC mains status changes.



Smart Alerts

Escalation-ready SMS, email, and push notifications for any abnormal event.



Offline Data Backup

Stores up to 10 days of data in case of network failure.



Cloud Firmware Updates

Remotely upgrade the system with zero downtime.

Benefits



Ensures Regulatory Compliance

Generates audit-ready logs and real-time reports to meet industry inspection and documentation requirements.



Maintain Product Quality

Detects even minor deviations in temperature or power status to protect sensitive goods and maintain freshness.



Delivers Cost Savings

Optimized energy usage, reduced spoilage, and automation of manual monitoring lead to significant operational savings.



Improves Energy Efficiency

Tracks power fluctuations and door-open durations to optimize AC performance and reduce energy waste.



Enhances Security

Smart IoT sensors detect unauthorized access and generate instant alerts and helping prevent theft and tampering.



Supports Better Decision-Making

Actionable insights and dashboards empower managers to optimize cold chain performance proactively.



Use Cases Across Industries



Pharmaceutical
Warehouses



Frozen & Perishable
Food Storage



Cold Chain Logistics &
Distribution Hubs




Retail & FMCG
Cold Rooms

Technical Specifications

Parameter	Details
Display	LED indicators for Network, Door, AC Mains, Battery, and Charging Status
Storage	4 GB (expandable to 8 GB); stores 10 days of offline data; unlimited cloud
Connectivity	4G LTE module with external antenna
Battery Backup	7.4V 5200mAh Li-Ion battery (12+ hours backup)
Sensor Modules	PT100 temperature sensor ($\pm 0.5^{\circ}\text{C}$ accuracy); Magnetic door sensor
Temperature Range	-45°C to $+70^{\circ}\text{C}$; Resolution $\pm 0.1^{\circ}\text{C}$
Power Supply	110–280V AC, 50Hz
Power Consumption	Peak: 5W; Average: 2.5W
Clock	Built-in Real-Time Clock (RTC) for timestamping
Environment Tolerance	0 to 70°C operating temperature; 5% to 85% RH (non-condensing)
USB Port	1 USB port for local configuration
Cloud Dashboard	Real-time monitoring, reports, and alert management
Mobile App	Available for Android / iOS for remote access and notifications
Alerts	SMS, Email, Push notifications for temp breach, power loss, door events

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