



Gyr Falcon IntelliEdge Solutions  
DIGITIZE | DIGITALIZE | AUTOMATE

# SOLUTIONS

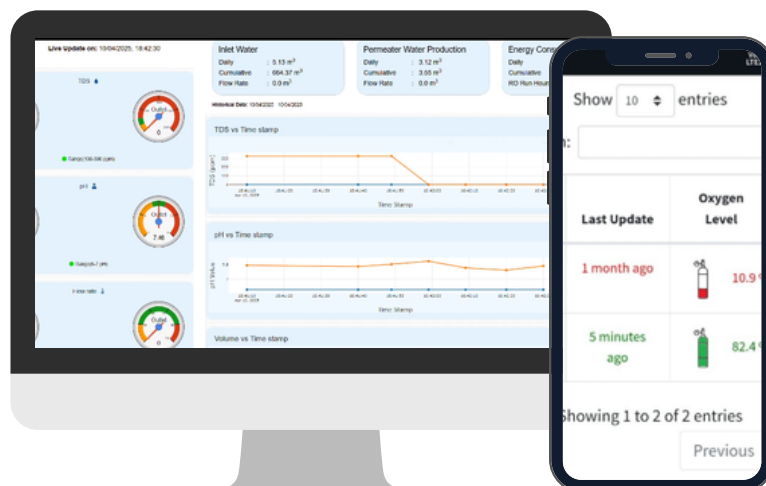
## PORTFOLIO



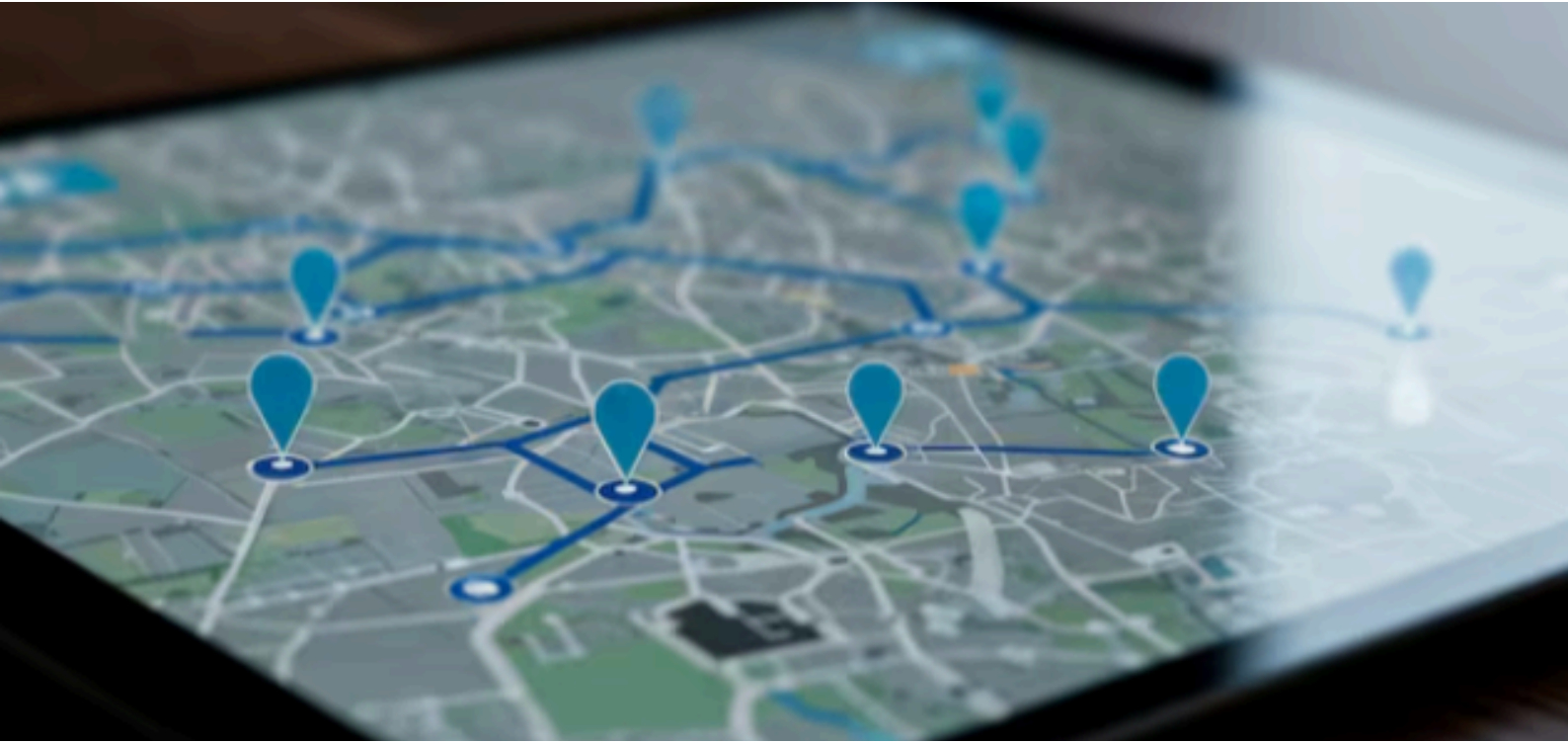
**Engineering intelligent, data-driven  
IoT solutions for improved decision  
making & cost savings**

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# About Us



**Founding Year**



**Vision**

To become a trusted global cyber-physical innovator transforming businesses through process upcycling and sustainability



**Mission**

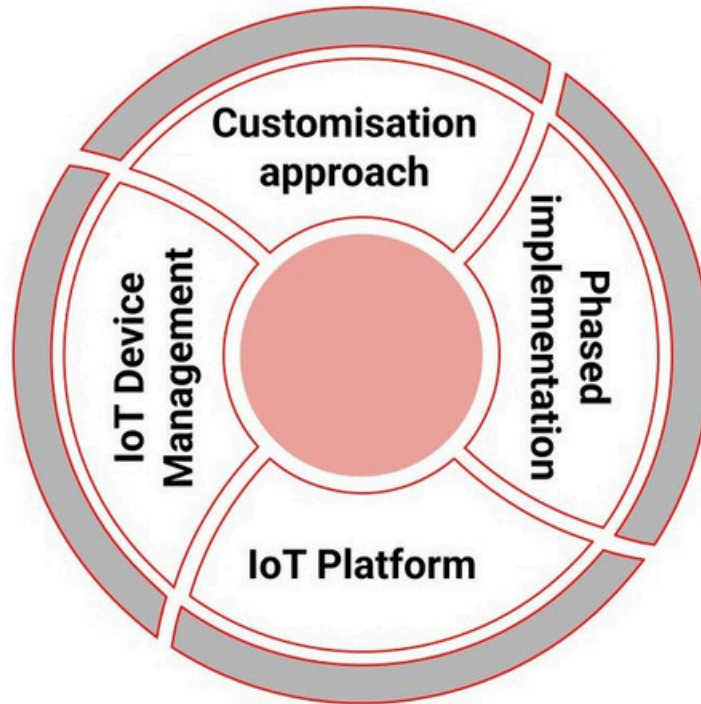
To deliver savings through digitisation, digitalisation and automation incorporating real-time intelligence and data-driven decision making

**Our Approach:** Assessment of the problem, Prototyping and validation, development of solutions to enable efficiency, cost savings and ROI for measurable sustainable outcomes

# Our Approach to Solve Problems

Research-oriented development of engineered hardware–software IoT solutions tailored to specific use cases

Device provisioning, configuration, troubleshooting and device lifecycle management



Minimised risks, measurable milestones ensure rapid deployment.

Remote Monitoring, real-time data collection, dashboard & visualization, analytics, alerts, and AI/ML integrations

## Benefits

End to End Solutions	Remote Device Management	Real-Time Insights	Enhancement
From hardware devices to analytics. Custom-fit IoT solutions to operational challenges	Reduce maintenance costs and better utilization of assets	Enables informed decision-making, report generation	Feedback, continuous automation and next increment identification

# Our Engineering Applications



## MONITORING APPLICATIONS

- Real-Time Monitoring
- Condition Monitoring
- Environmental Monitoring
- Energy & appliance utility Monitoring



## CONTROL & AUTOMATION APPLICATIONS

- Remote Device Control
- Automated Process Control
- Smart Actuation Systems



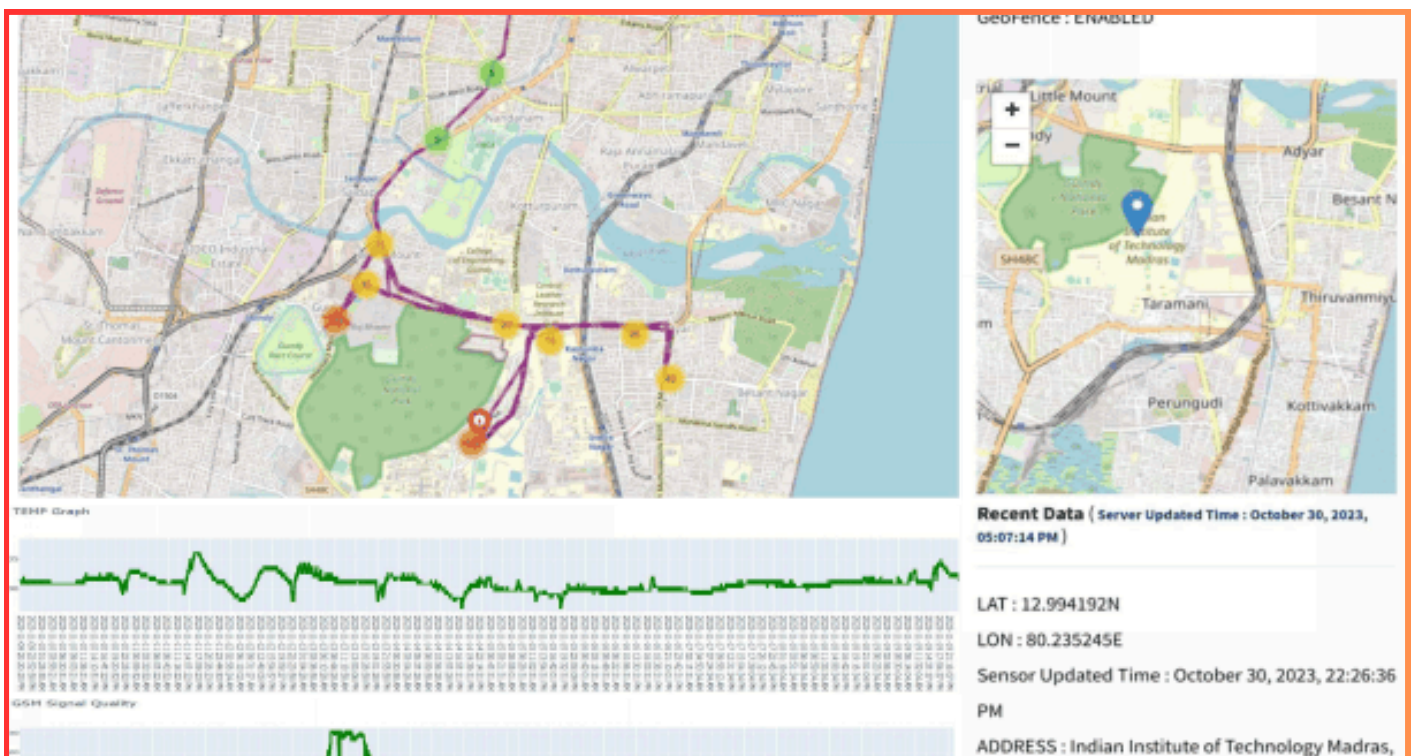
## TRACKING & VISIBILITY APPLICATIONS

- Asset Tracking
- Fleet & Route Monitoring
- Geofencing & Tamper Detection



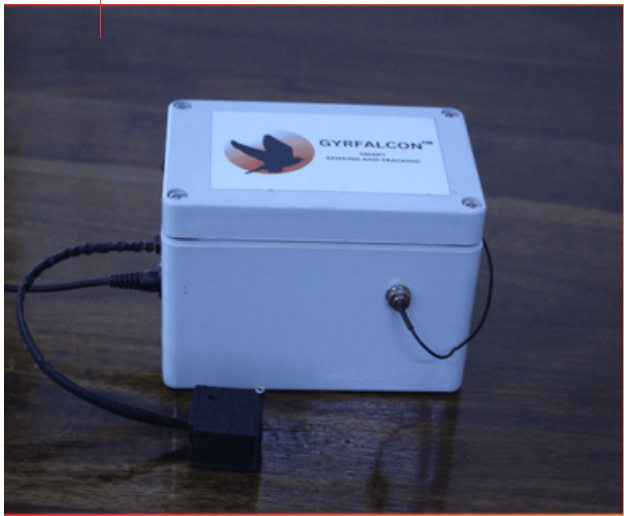
## ANALYTICS & INTELLIGENCE APPLICATIONS

- Predictive Maintenance
- Anomaly Detection & Alerts
- Performance & Compliance Analytics





## Temperature-Humidity Monitoring System



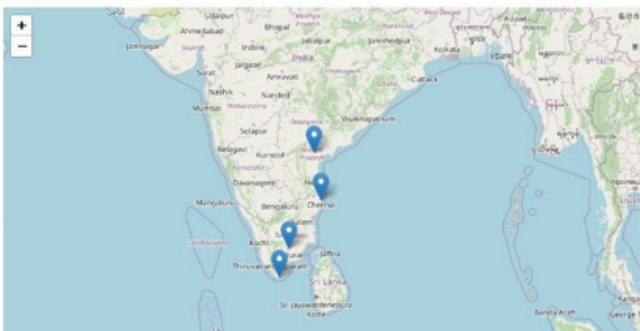
**TM**  
GYRFALCON IoT Humidity Monitoring Gateway (GYRHT0001) allows you to monitor room temperature, pressure and humidity levels remotely to make data-driven decisions based on real-time humidity data.

FEATURES	SPECIFICATION
Power Supply	5V to 13.5V DC, 3A
Connectivity	GSM (2G/4G) or WiFi (Configurable)
Protocol Support	HTTP / TCP / MQTT
Battery Capacity	2600 mAh Internal Li-ion
Backup Battery Life	Up to 20 hours (configuration dependent)
Operating Temp	-20°C to +70°C
Storage Temp	-10°C to +70°C
Security	End-to-End Data Encryption
Enclosure	Thermal Resistant
Report Formats	.xls, .csv, .pdf

Show 4 entries

Name	Last Update	Temperature Status	Details
TRACCS001	3 hours ago	<div style="display: flex; width: 100px; height: 10px; background: linear-gradient(to right, blue, green, orange);"></div>	
TRACCS002	2 minutes ago	<div style="display: flex; width: 100px; height: 10px; background: linear-gradient(to right, blue, green, orange);"></div>	
TRACCS003	50 minutes ago	<div style="display: flex; width: 100px; height: 10px; background: linear-gradient(to right, blue, green, orange);"></div>	
TRACCS004	10 minutes ago	<div style="display: flex; width: 100px; height: 10px; background: linear-gradient(to right, blue, green, orange);"></div>	

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### Applications

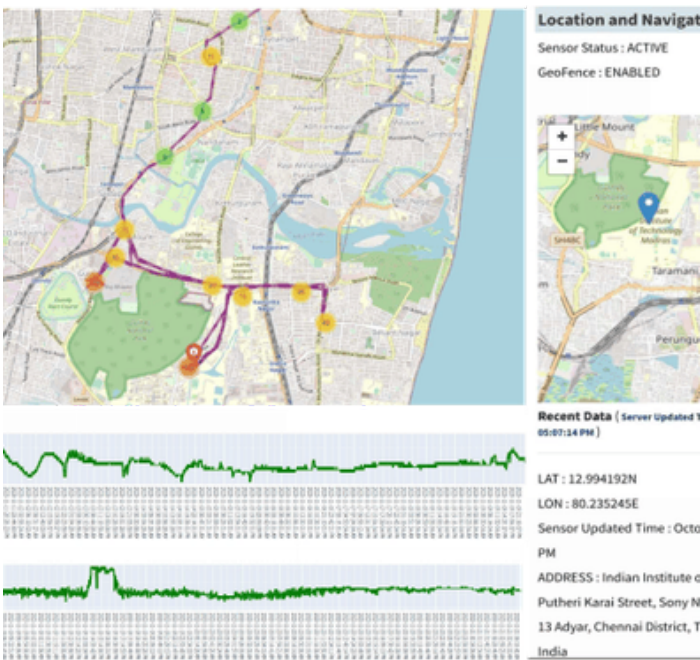
- Cold storage & warehouses
- Pharmaceutical & vaccine storage
- Fab labs
- Data centers & server rooms
- Manufacturing & clean rooms
- Agriculture (greenhouses, polyhouses)
- Food processing & storage
- Hospitals & laboratories
- Smart buildings & HVAC systems
- Logistics & transportation (reefer trucks, containers)



# Location Tracking Device



GYRFALCON™ IoT Location Tracking System (GYRLTS001) is a telematics technology that allows the real time location monitoring of vehicles/assets using GNSS and cellular communication



FEATURES	SPECIFICATION
Power Supply	5V to 13.5V DC, 3A
Connectivity	GSM OR WIFI
Battery Capacity	2600 mAh
Backup Battery	20 hours (based on configuration)
Location (Optional)	GNSS (with IRNSS support)
Operating Temp	-10°C TO 70°C
Working Modes	Power Saving/Continuous
Enclosure	Automotive Grade
Security	End to End Data Encryption
Data Logging, when no GSM	Upto 4 months (based on configuration)
Report Generation	xls, .csv, .pdf

## Applications

- Vehicle Tracking & Fleet Management
- Marine & Fishing Applications
- Industrial Asset Tracking
- Personal Safety & Child Tracking
- Livestock & Animal Tracking
- Logistics & Supply Chain
- Healthcare Applications
- Security & Theft Prevention
- Smart City & Public Projects



# Heavy Machinery monitoring system



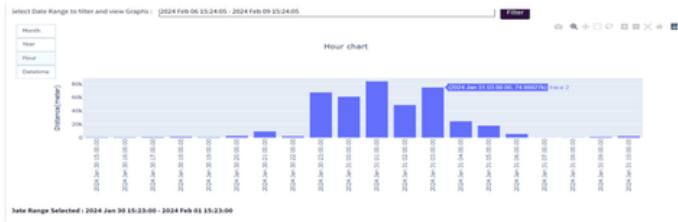
GYRFALCON™ Heavy Machinery Monitoring and Control System (GYRHMS001) enables real-time monitoring of location, usage hours, and key performance data, while also preventing and controlling the misuse of heavy machinery.

FEATURES	SPECIFICATION
Power Supply	5V to 13.5V DC, 3A,
Connectivity	GSM OR WIFI
Battery Capacity	2600 MAH
Backup Battery	20 hours (based on configuration)
Protocol	HTTPS/SSL
Configuration	Motion detection, Tamper Proof, Obstacle detection
Report Generation formats	xls, csv, pdf.

Vehicle Id	Machine Type	Last Gateway Status	Last Machine Run Status	Last GPS Address	Last one week	Immobilization	Details
BL013	Bulver	2 minutes ago	2 days ago	Tamil Nadu,600032			
PT1945	Pipeline Tracer	1 month ago	1 month ago	Tamil Nadu,600032			
SC1823	Shrap Carter	2 months ago	2 months ago	Tamil Nadu,600019			

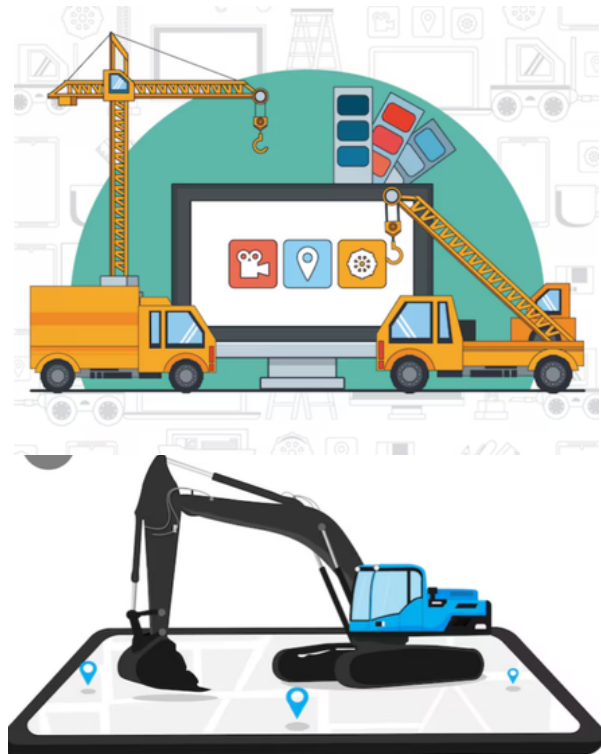
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Last Gateway Status: ● 10 minutes ● 10 minutes  
 Last Machine Run Status: ● 1 day ● 1 day  
 Last One Week: ● 1 bars ● 1 bars

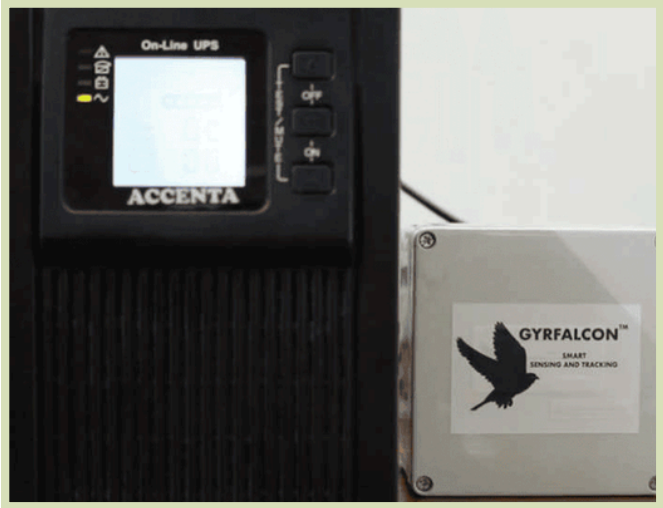


## Applications

- Predictive Maintenance
- Improved Operational Efficiency
- Safety Monitoring and Accident Prevention
- Remote Monitoring and Control
- Reduced Downtime
- Asset Management and Lifecycle Extension
- Compliance and Reporting



# Appliance Monitoring System



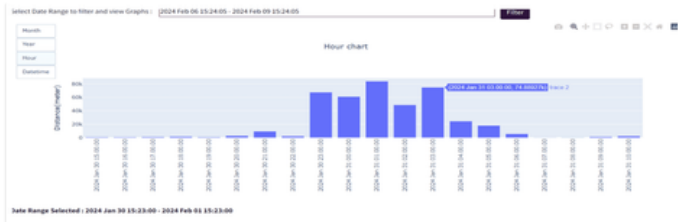
GYRFALCON™ IoT UPS Monitoring Gateway (GYRUPS001) integrates with UPS appliances to provide real-time information about UPS status, battery health, load levels, and overall UPS performance, enabling the conversion to Smart UPS

FEATURES	SPECIFICATION
Power Supply	5V to 13.5V DC, 3A
Connectivity	GSM OR WI-FI
Battery Capacity	2600 mAh
Backup Battery	Up to 20 hours (based on configuration)
Battery Voltage Monitor	Inbuilt
Location (Optional)	GNSS WITH IRNSS SUPPORT
Storage Temperature	-10°C to 60°C
Fast Charging	Supported
Working Modes	Power Saving / Continuous

Vehicle Id	Machine Type	Last Gateway Status	Last Machine Run Status	Last GPS Address	Last one week	Immobilization	Details
BL0103	Bikes	2 minutes ago	2 days ago	Tamil Nadu, 600032			Total Usage Hours: 17
PT1945	Pipeline Tractors	1 month ago	1 month ago	Tamil Nadu, 600032			Total Usage Hours: 0
SC1823	Swamp Caters	2 months ago	2 months ago	Tamil Nadu, 600019			Total Usage Hours: 0

Showing 1 to 3 of 3 entries

Last Gateway Status: ● 10 minutes ● 10 minutes  
 Last Machine Run Status: ● 1 day ● 1 day  
 Last One Week: ● 1 hour ● 1 hour



## Applications

- Data centers & server rooms
- Telecom towers & network infrastructure
- Hospitals & healthcare facilities
- Industrial automation & control systems
- Banks & financial institutions
- Airports, railways & metro systems
- Smart buildings & commercial complexes
- Manufacturing plants
- Government & defense facilities
- Remote & unmanned sites (oil & gas, utilities)

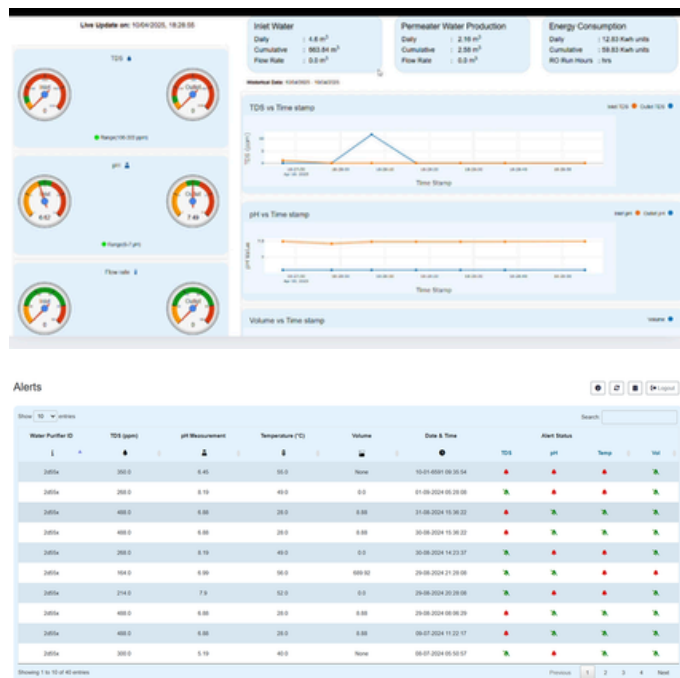


# Water Level Monitoring



GYRFALCON™ Water Level Monitoring System (GYRWLM001) provides real-time monitoring and data of water levels in rivers, dams, ponds and storage tanks, ensuring timely alerts.

FEATURES	SPECIFICATION
Power Supply	5V to 13.5V DC, 3A
Connectivity	GSM OR WI-FI
Battery Capacity	2600 mAh
Backup Battery	Up to 20 hours (based on configuration)
Battery Voltage Monitor	Inbuilt
Location (Optional)	GNSS with IRNSS support
Storage Temperature	-10°C to 60°C
Fast Charging	Supported
Working Modes	Power Saving / Continuous



## Applications

- Flood Monitoring & Early Warning Systems
- Dam & Reservoir Management
- Groundwater Monitoring
- Urban Water Supply Systems
- Industrial Applications
- Marine & Coastal Applications
- Agriculture & Irrigation
- Smart City Applications
- Environmental & Research Applications



## Flood Early Warning System



Communities in flood-prone areas often face sudden water level rises with little time to respond. An IoT-based flood early warning system provides real-time water level monitoring and timely alerts. Early warnings help authorities and residents take preventive action and evacuate safely. This reduces loss of life, property damage, and improves overall disaster preparedness.

**Read More :** [www.gyrfalconintelliedge.com/Resources/Casestudies](http://www.gyrfalconintelliedge.com/Resources/Casestudies)

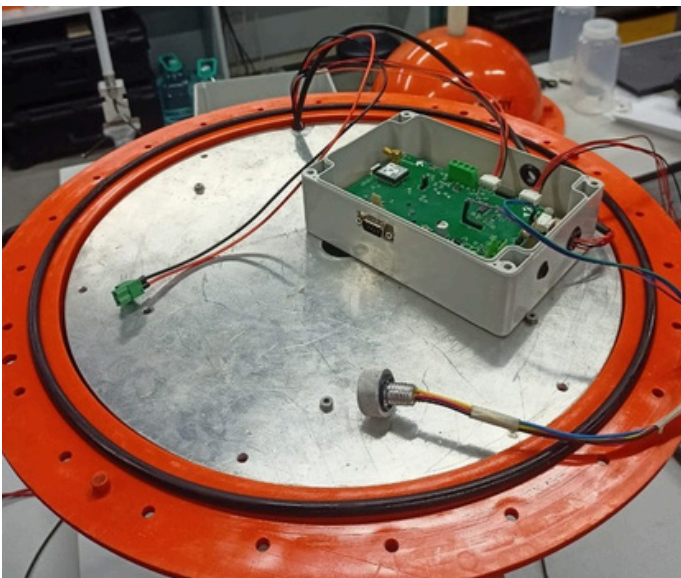
## Fleet and Utilization Management



Fleet owners of heavy machinery often struggle with poor visibility into how, where, and how long their equipment is being used. An IoT-based fleet monitoring solution provides real-time location and usage data, helping prevent misuse, unauthorized operation, and fuel losses. Features like geofencing, alerts, and remote immobilisation improve control, especially in rental operations. This enables better maintenance planning, higher equipment utilization, and reduced downtime and costs.

**Read More :** [www.gyrfalconintelliedge.com/Resources/Casestudies](http://www.gyrfalconintelliedge.com/Resources/Casestudies)

## Oceanographic parameter Monitoring Solution




Marine conditions can change quickly, and it's not always easy to know what's happening out at sea. An IoT-based oceanographic monitoring system gives real-time visibility into key parameters like location, sea surface temperature, bathymetric pressure. With live data and timely alerts, marine operators can make safer and smarter decisions. This leads to smoother operations, lower risk, and better planning for coastal and offshore activities.

**Read More :** [www.gyrfalconintelliedge.com/Resources/Casestudies](http://www.gyrfalconintelliedge.com/Resources/Casestudies)




## Contact information

 9884039642, 9176399642

 [Contact@GyrfalconIntelliEdge.com](mailto:Contact@GyrfalconIntelliEdge.com)

[www.GyrfalconIntelliEdge.com](http://www.GyrfalconIntelliEdge.com)

 **Branch Office:** Ashwamedha, No.121, 1st Floor,  
Velachery Main Road, Guindy, Chennai -  
600032, **TN**

**Regd Office:** Bhive Platinum Church Street  
48, Church St, Haridevpur, Shanthala Nagar,  
Ashok Nagar, Bengaluru, 560001, **KA**