

Remote Monitoring and Control Solution for Diesel Gensets

Real-Time Visibility. Smarter Control. Lower Operating Cost.



Why Remote Monitoring?

Maximize uptime, reduce operational costs, and gain real-time insights into your Genset performance anytime, anywhere.



Real-time On/Off status and performance monitoring of DG sets



Accurate tracking of run-hours for optimized servicing



Centralized visibility into fuel consumption and energy output



Remote diesel tank level monitoring to prevent dry-run



Automated email alerts for faults or abnormal conditions



Reduced need for manual site visits and quicker response time

The Solution – Smart, Scalable & Reliable

Our DG Remote Monitoring solution combines compact hardware with powerful cloud software for complete visibility and control.

Plug-and-Play Data Acquisition Box

Powered by IloTNext MicrEdge 370 Gateway

Designed for field conditions, the MicrEdge 370 captures and transmits real-time data from each Diesel Generator. It can be installed inside your existing control panel or a separate DAQ enclosure.



Key Highlights



Collects data via Modbus RTU, CANbus, and hardwired I/Os



Enables real-time fuel level monitoring for proactive refueling



Supports condition monitoring of engine and alternator



Integrated GSM or Wi-Fi for internet connectivity



Supports fail-safe remote ON/OFF control via SMS



Easily integrates into existing panels or supplied in pre-built Box

IloTNext Cloud Platform

Your Command Center for Remote Monitoring

The IloTNext Platform processes and visualizes DG performance data in real time—accessible from any device.



Key Features



Real-time dashboards for DG run-hours, fuel levels, and power output



Alerts and notifications via email for critical events



Monitor from any browser (desktop/laptop) or mobile app (Android)

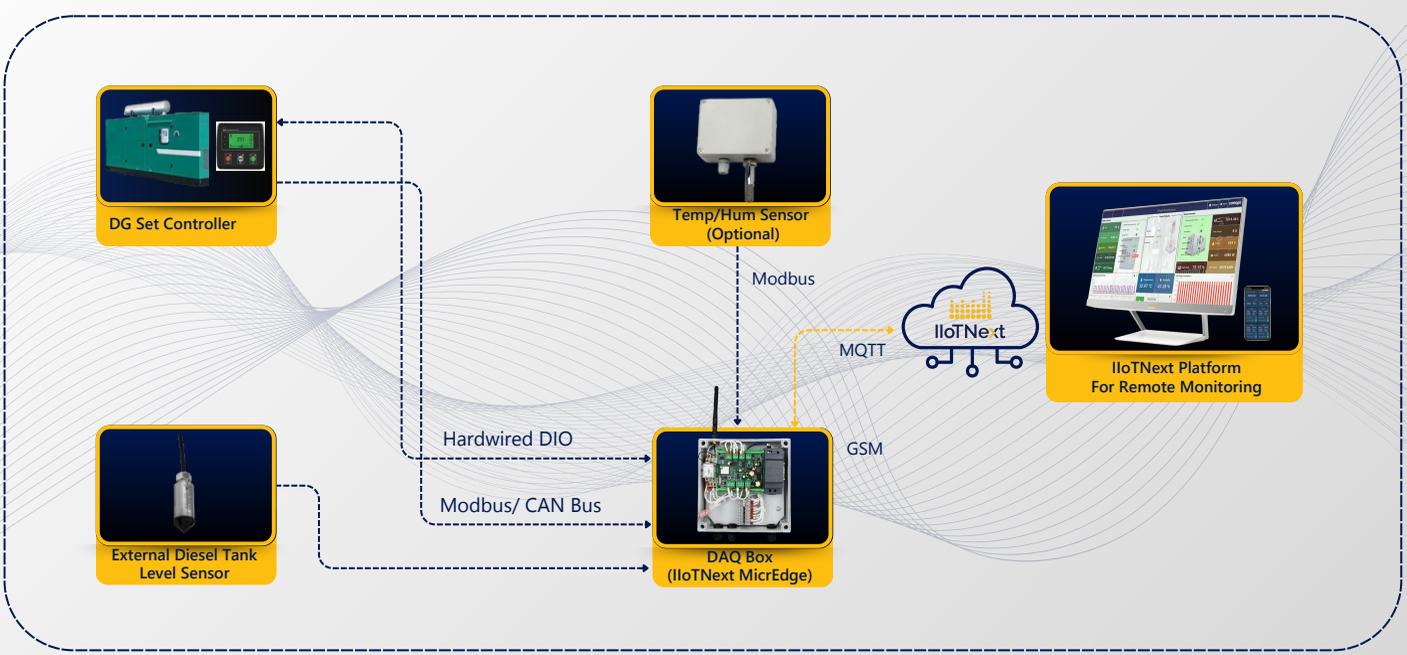


Supports multiple devices with role-based access and audit logs



Set up logic rules, schedules, and automated reports

System Architecture – DG Monitoring with IloTNext



IloTNext MicrEdge 370 – Key Features

Compact and rugged gateway designed for real-time DG monitoring.

- ✓ **Power:** 12–24 VDC (DG battery-powered)
- ✓ **Data Interfaces:** RS-485 (Modbus RTU), CANbus, Digital & Analog I/Os
- ✓ **Connectivity:** GSM/LTE, Wi-Fi, Ethernet
- ✓ **Mounting:** DIN rail / backplate
- ✓ **Edge Intelligence:** Custom logic, remote ON/OFF via SMS or schedule
- ✓ **Fail-Safe:** Works offline with local control logic
- ✓ **Enclosure:** Fits inside control/DAQ panel – industrial-grade reliability



IloTNext
MicrEdge

IloTNext Platform – Key Features



Cloud-based platform for centralized monitoring, visualization, and alerting.

- ✓ **Live Dashboards:** Fuel levels, run-hours, energy output & more
- ✓ **Mobile & Web Access:** Browser and Android app
- ✓ **Custom Alerts :** Get email notifications for faults or thresholds
- ✓ **Reports :** Auto-generate and email PDF/Excel reports
- ✓ **Security:** Role-based access, encrypted communication
- ✓ **Device Management:** Manage 1000+ gateways with remote config and updates

Want to modernize your DG fleet with real-time monitoring? Get in touch with us.



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