



KirloSmart™

KirloSmart™ 2.1

**NEXT GENERATION IoT SOLUTION
FOR A CONNECTED FUTURE**

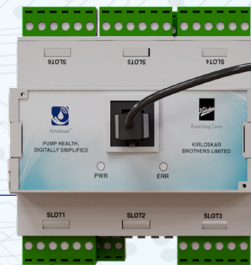


Enriching Lives

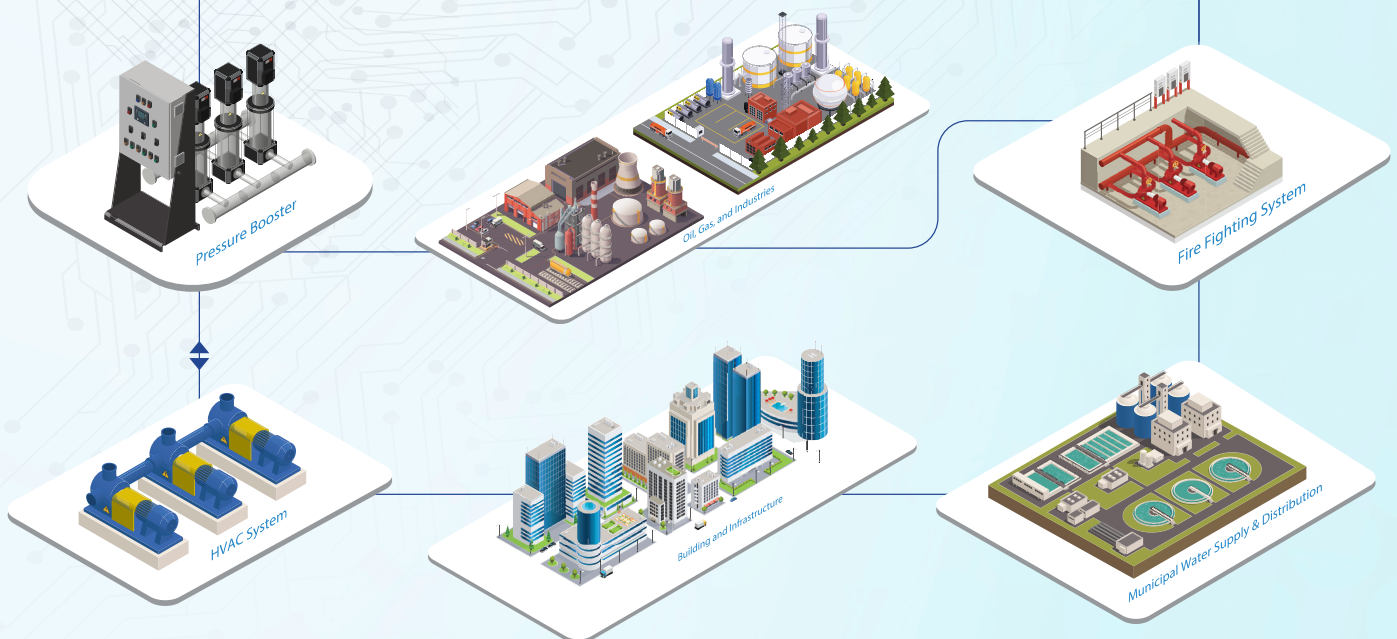


Remote Terminal

**IoT BASED
REMOTE PUMP
HEALTH MONITORING
SYSTEM**



KirloSmart™ 2.1



FEATURES AND BENEFITS



**Remote
Monitoring**



**Predictive Maintenance/
Spares Management**



**Historical Data/
Trends**



**Alarms
& Warnings**



**Application
Performance**

KIRLOSKAR BROTHERS LIMITED

Established 1888
A Kirloskar Group Company

Parameters



KirloSmart™ 2.1 is an advanced IoT (Internet of Things) solution designed for remote monitoring, diagnostics for pumping systems.

It monitors and transmits field parameters to KBL's cloud. Leveraging real-time analytics and intelligent condition monitoring to deliver early warnings/ alerts of pump and motor health issues to minimize downtime and maximize asset life.

The system supports local control logic execution, allowing actions, alarms to function independently of cloud connectivity. By transmitting data via Ethernet and Wi-Fi or Mobile Data (GPRS), it ensures seamless connectivity, enhanced operational efficiency, and reliable performance tracking from anywhere in the globe. Being compatible with pumps and motors of any make, KirloSmart™ 2.1 is ideally suited for packaged pumping systems such as HYPN, HVAC and similar process control applications as well as pump sets, providing continuous visibility into equipment status, performance analytics, real-time alerts, and predictive maintenance insights, helping users improve reliability and optimize operational performance.

Also, it can monitor Water Quality parameters like – pH, Chlorine, Turbidity, TDS, Conductivity, and Tri-Axial Vibrations of Pumpsets.

Add-on functionalities

- Suitable to monitor up to 5 pump sets - eliminates multiple panels and accessories & saves space
- Easy interfacing with PLC / DCS / SCADA / VFD – More flexibility for system integration
- Door mounted display for local monitoring
- Option for External HMI
- Multiple data transmission options – Ethernet/ GPRS / WiFi – More flexibility
- 2G/3G/4G/5G compatibility
- Local logic possible if required
- Can be connected to any make of pump sets
- **Packaged pumping systems like HYPN, HVAC, Fire & other process control applications**
- I/O's AI-8 Nos, RTD – 6 Nos, DI – 8 Nos, DO – 6 Nos. Further I/O expansion possible

Benefits

- Reduces unplanned breakdown, improves process / plant Safety & reliability
- Increased equipment life & less down time
- Improves equipment efficiency
- Reduces operational cost, repair cost, Labour hence improves profitability
- Eliminates cost of assets like Servers, Modems, Computers etc.
- Remote online support & customer guidance through Datacenter experts

Features

- Predictive maintenance alerts with probable causes (SMS & email)
- 24 x 7 Real Time Monitoring, Historical Data, Trend Monitoring and Graphical Indications
- Remote Diagnostic of the issues at early stages
- Pump Spares management – Estimation of service life
- Storage of data in event of internet communication failure
- User configurable Sensors
- Cost effective, Simple, Plug & Play
- Facilitates easy Integration with existing equipments

Applications

- Building & Construction
- Water Distribution
- Irrigation Systems
- Industries
- Power Plants
- Oil & Gas
- Marine & Defence

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Industry 4.0

OUR COMPANIES



BRAYBAR PUMPS (PTY) LTD
Republic of South Africa



KARAD PROJECTS AND MOTORS LIMITED
India



KIRLOSKAR BROTHERS (THAILAND) LIMITED
Thailand



KIRLOSKAR CORROCOAT PRIVATE LIMITED
India



KIRLOSKAR EBARA PUMPS LIMITED
India



RODELTA PUMPS INTERNATIONAL B.V.
The Netherlands



SPP PUMPS LIMITED
United Kingdom



SYNCRFLO, INC.
U.S.A.