



KirloSmart™

KirloSmart™ NANO

NEXT-GEN IoT PLATFORM FOR PUMPING SOLUTIONS



Enriching Lives

IoT BASED REMOTE PUMPING SYSTEM HEALTH MONITORING SOLUTION

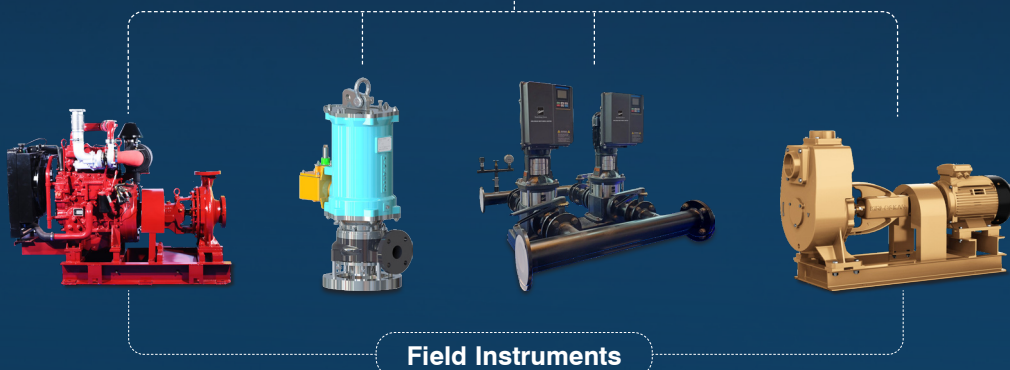
Cloud / Data Analytics Alerts



KirloSmart™ Nano



Wireless communication GPRS / WiFi / Ethernet



Field Instruments

FEATURES AND BENEFITS



Remote Monitoring



Predictive Maintenance/
Spares Management



Historical Data/
Trends



Alarms
& Warnings



Application Performance

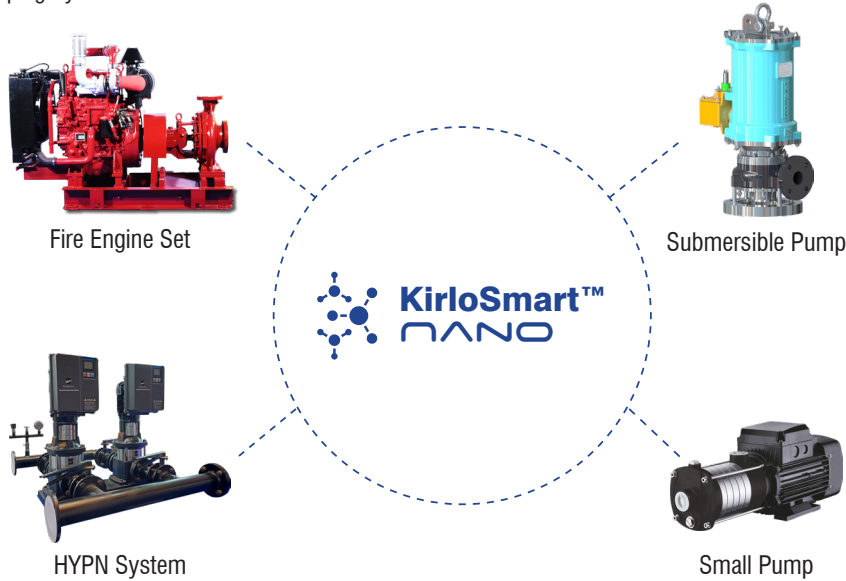
KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

Applications

Monitoring of Packaged Pumping Systems such as HYPN (Pressure Boosting) System, Firefighting Pumping System etc.



'KirloSmart' is an IoT (Internet of things) product with unique capability of measuring and transmitting the field parameters for "Remote Monitoring" on KBL's web based portal / Cloud for analytics and generating alerts for the probable causes leading to failure of the pump/ motor/pumping system.

'KirloSmart' enabled system helps user in monitoring the pump health and operation behaviour of pump on real time basis by appropriately sensing the critical health and operational parameters of the pump. 'KirloSmart' remotely manages the pump/motor/ pumping system and notifies its current state by transferring the data using wired Ethernet or Mobile Data (GPRS) or Wi-Fi.

Monitoring

- Overall system status
- Pressure (Headers)
- Sump level
- Power parameters
- Prime mover parameters (Engine/Motor)

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 (with minimum parameters)
- Easy interfacing with PLC / DCS / SCADA / VFD – More flexibility for system integration
- On board display for local monitoring & easy diagnostics
- Multiple data transmission options – Ethernet/ GPRS / WiFi – More flexibility
- 2G/3G/4G/5G compatibility
- OTA (Over The Air), remote updates / configuration facility - Facilitates quick remote support & avoid service personnel visits
- Inbuilt Ambient Temperature – Helps to know conditions on site
- I/O's – AI – 2 / RTD – 2, DI – 2 / DO – 2 Further I/O expansion possible.

Features

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

Benefits

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

Applications

- Fire Engine Set
- Submersible Pump
- Small Pump
- HYPN (Pressure Boosting) System

KIRLOSKAR BROTHERS LIMITED

Established 1888

A Kirloskar Group Company

Registered Office & Global Headquarters: "Yamuna", S.No. 98(3-7), Plot No. 3, Baner, Pune - 411045, Maharashtra, India. Phone: +91 (20) 67214444

Email: marketing@kbl.co.in | Fax No. 020 67211060 | Website: www.kirloskarpumps.com | CIN No. L29113PN1920PLC000670.



Industry 4.0

OUR COMPANIES

