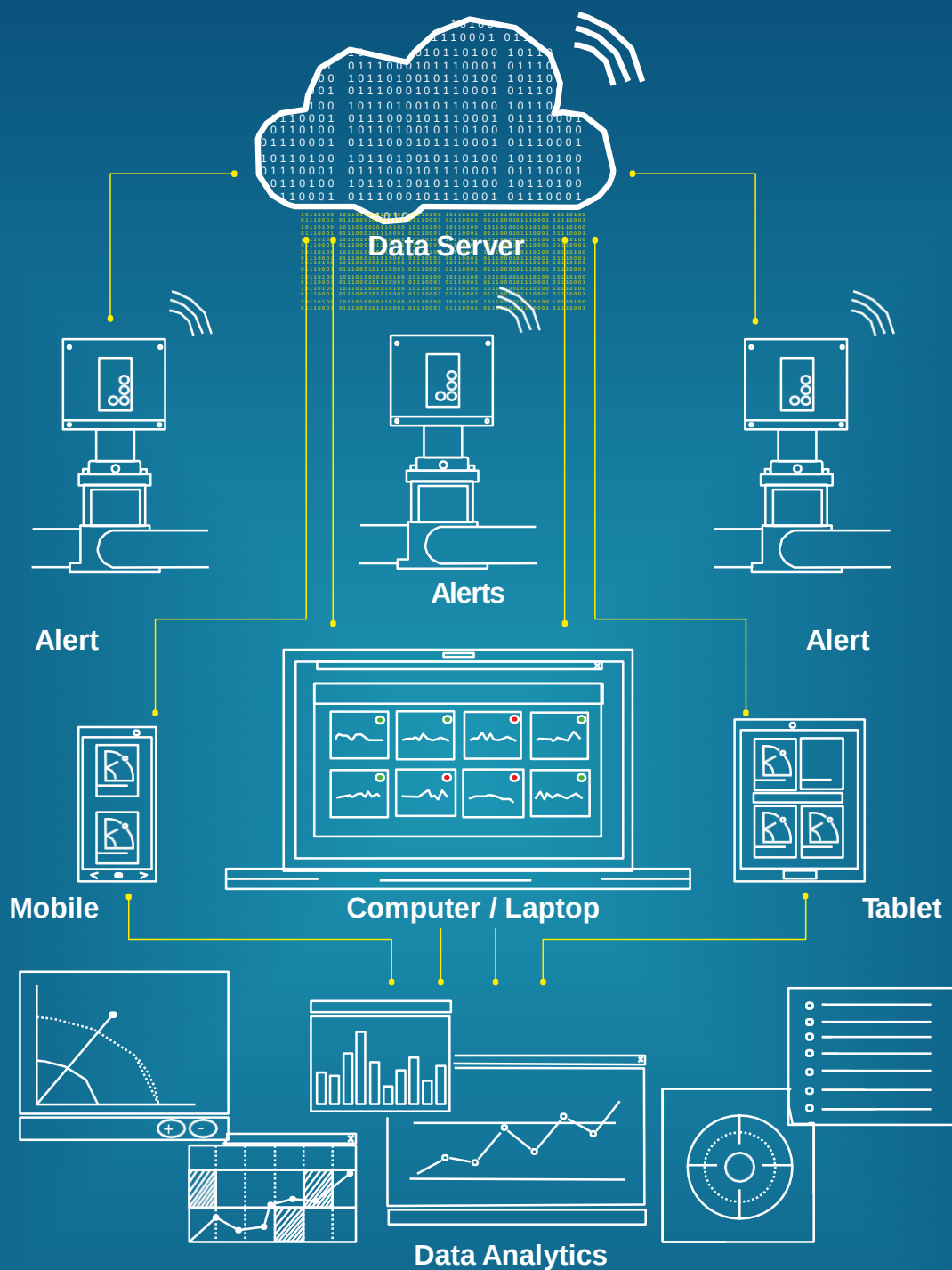


KirloSmart

IoT Remote monitoring Solutions



Remote Monitoring



Predictive Maintenance/
Spares Management



Historical Data
Trending

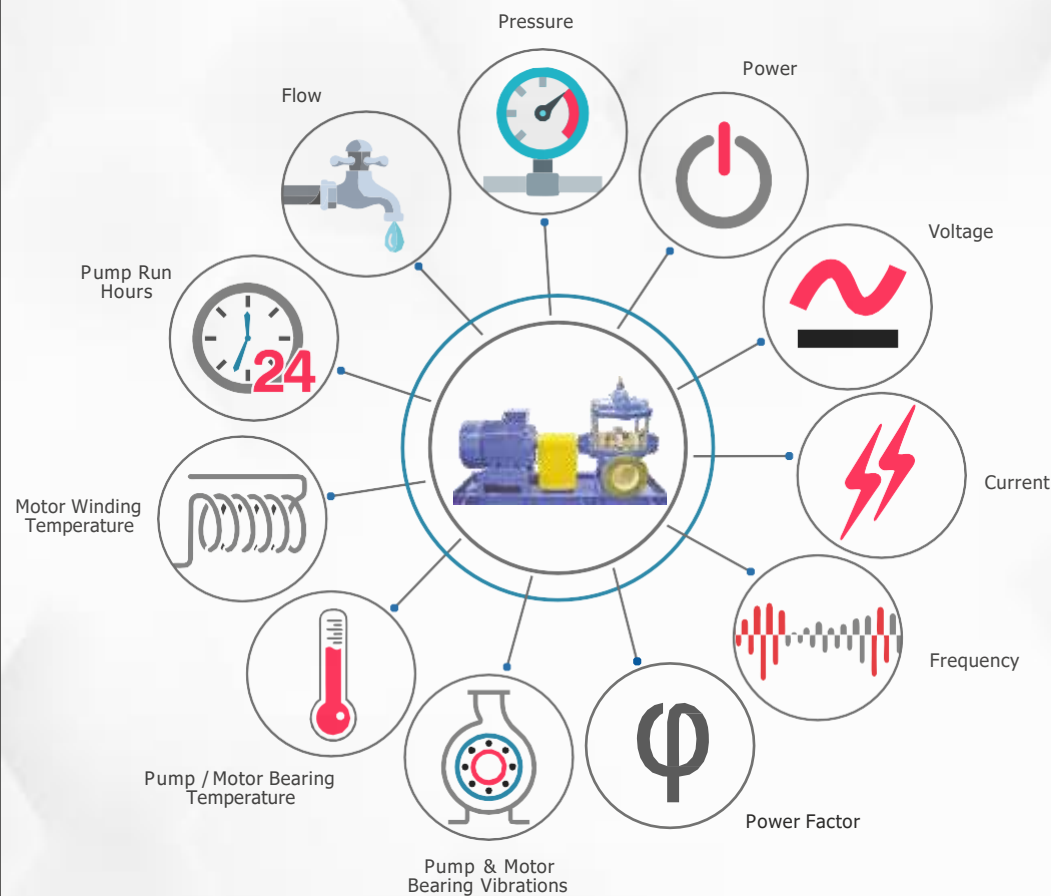


Alarms & Warnings



Application Performance

PARAMETERS



'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.

'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 and notifies its current state by transferring the data using wired Ethernet or Mobile Data (GPRS)

UNIQUE 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
- Storage of data in event of communication failure
- User configurable Sensors
- Communication mode selection (Mobile Data (GPRS) / Ethernet)
- Cost effective, Simple, Plug & Play
- Facilitates easy Integration with existing equipments

BENEFITS

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

PRODUCT OVER VIEW



TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Degree of protection	IP 20
Ambient temperature	0 to 50 deg C
Supply Voltage	Auxiliary Input Voltage : 230 V AC,50 Hz
Storage Memory	8GB SD card Supported
Interfaces	Isolated Rs485 port: Connection between KirloSmart and Slave devices (MFM/PLC/Drive) RJ45 Ethernet port: For TCP/IP Connectivity
Digital Input	4 Isolated Digital Inputs (Potential free contact)
Analog Input	RTD - 5 Inputs 4 - 20 mA (Loop powered 12V DC) - 7 Inputs
Communication	Mobile Data (GPRS) or Ethernet
LED Indication	System Health Data Communication Slave Communication Power On Alarm
Termination	Screw type Termination
Dimension	178(L) X 116 (H) X 57(W) Approx..
Housing Material	ABS

DASH BOARDS



**Self
Monitoring
Analysis
Reporting
Technology**





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