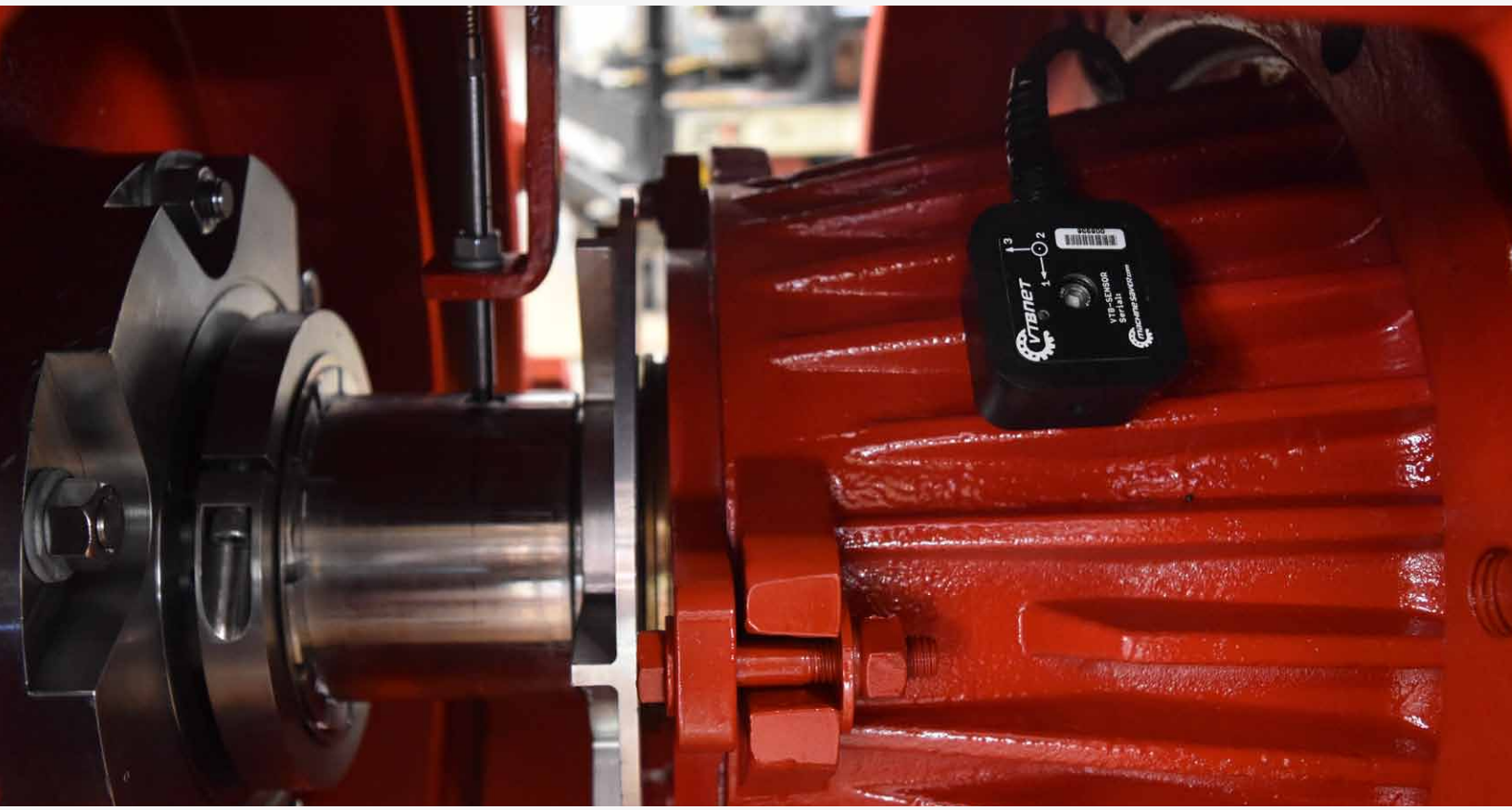
DXP® THE INDUSTRIAL DISTRIBUTION EXPERTS

INTEGRALERT2 Continuous Remote Monitoring System

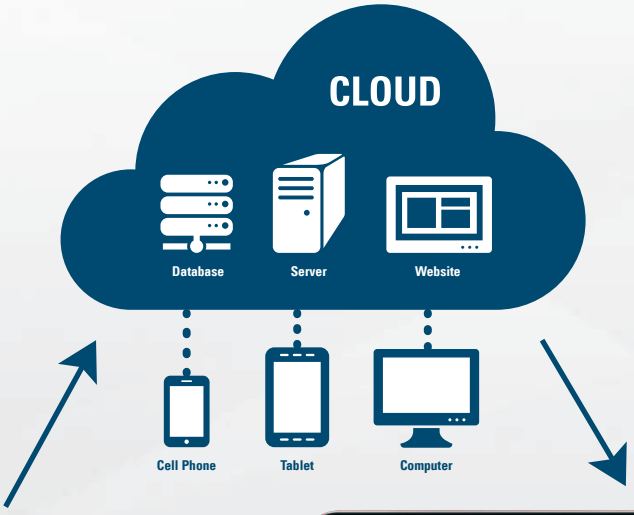
Integralert2 is a new product from DXP. A continuous remote condition monitoring system that measures vibration in 3 axes and temperature at each sensor location, sends the data to the cloud and returns the customer actionable information on a User Interface to a smartphone, tablet or laptop for a fraction of the cost of comparable systems. **Integralert2** helps our customers meet their objectives to reduce maintenance spending and increase MTBR (Mean Time Between Repairs) by identifying detrimental system conditions prior to catastrophic failure.



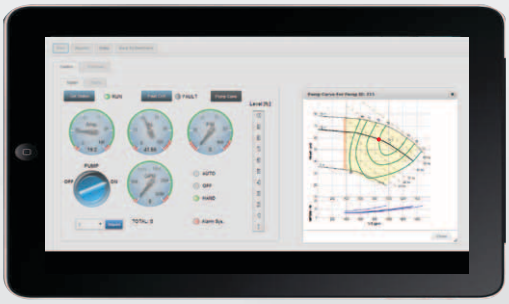
INTEGRALERT2 Operation

Integralert2 is a product that optimizes the latest condition monitoring technology, proven hardware, cloud computing and rotating equipment knowledge and expertise from DXP for a fraction of the cost of comparable monitoring systems. The principles of Industrial Internet of Things (IIoT) are employed to transmit data to the cloud, use proprietary software to analyze the data and return it to an Integralert2 User Interface that displays actionable data on vibration and temperature on your smartphone, tablet or laptop. The base system comes with a 3 axis accelerometer, an RTD temperature probe which can be mounted at each bearing location on any rotating machine and/or the motor and an Integralert2 Gateway (shown below) to transmit this data to the cloud. Other electronic signals can be included by capturing read-only outputs from customers' existing PLC's, SCADA systems, drives, starters, flow meters, accelerometers, RTD's or any other onboard condition monitoring device.

In fact, if flow, inlet pressure and outlet pressure are available for pumps, dynamic pump curves can be displayed on the Integralert2 User Interface that shows where the pump is running on its curve. Alarm levels can be also be established for each element on the Integralert2 User Interface and when preset alarm levels are exceeded a text messages, email or work order from a work management system can be sent to designated individuals to take corrective actions or in some cases shut the equipment down to prevent catastrophic failure. The primary purpose of Integralert2 is to monitor and respond to conditions that cause failure resulting in reduced spending and increased MTBR.



Integralert2 Gateway



Integralert2 User Interface

Typical Dashboard Elements

Pump Curve | Inlet Pressure | Outlet Pressure | Flow | Speed | Frequency (VFD) | On/Off | Motor Current | Voltage
Vibration | Temperature | Oil Level | Tank Level | Valve Position