

IoT Machine Monitoring System





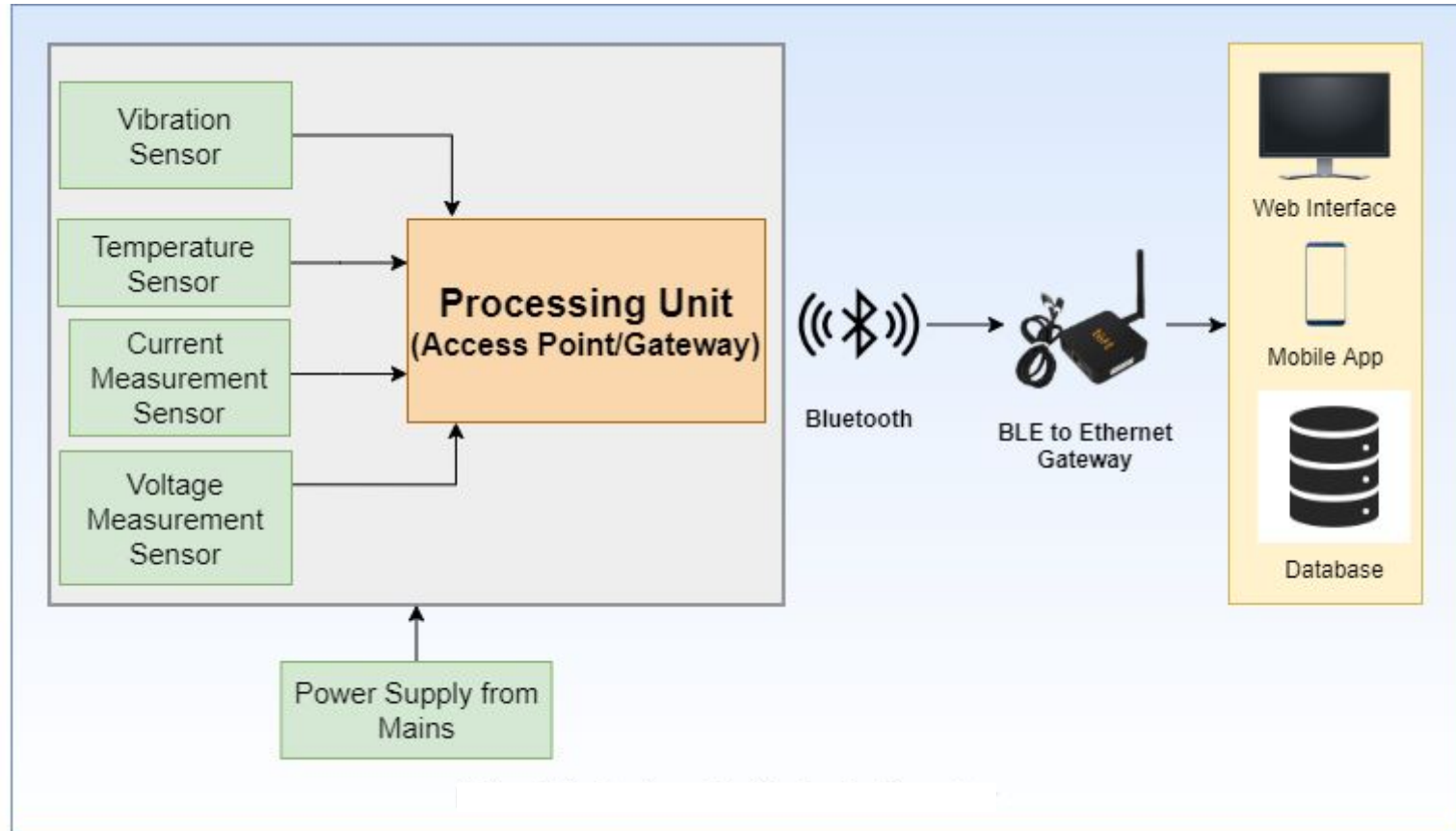
Description

IoT Machine monitoring system is an embedded system developed with cutting edge sensor technology and smart software algorithms. Machine monitoring system allows users to increase their productivity by utilizing its resources to the full strength while also avoiding any future loss by foreseeing any risks.

TEKSUN Machine Monitoring Solution



Machine Monitoring System Architecture





Vibration Sensor

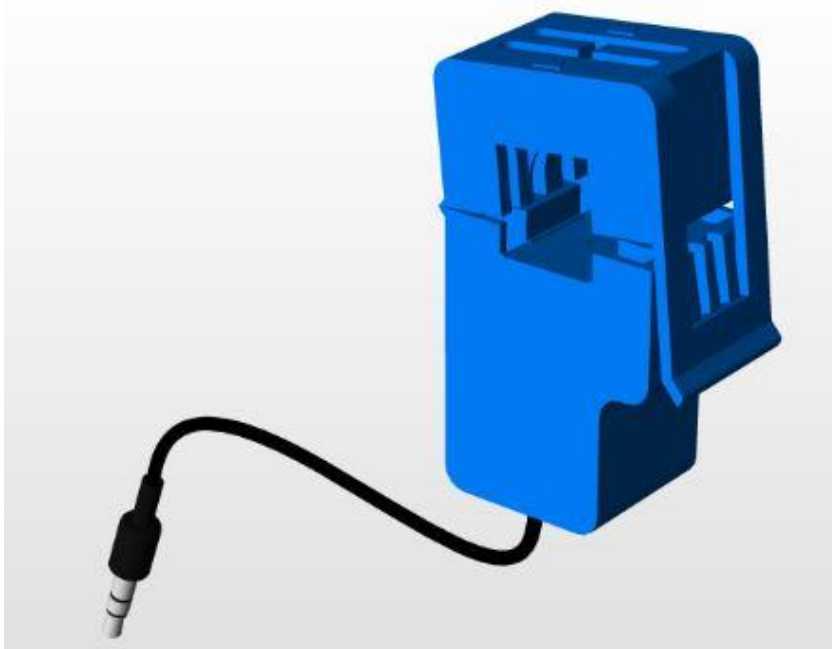
The vibration sensor is also called a piezoelectric sensor. These sensors are flexible devices which are used for measuring various processes. This sensor uses the piezoelectric effects while measuring the changes within acceleration, pressure, temperature, force otherwise strain by changing to an electrical charge.

Temperature Sensor

A temperature sensor is a device, typically, a thermocouple or RTD, that provides for temperature measurement through an electrical signal. A thermocouple (T/C) is made from two dissimilar metals that generate electrical voltage in direct proportion to changes in temperature



Current Sensor



A current sensor is a device that detects electric current in a wire and generates a signal proportional to that current. The generated signal could be analog voltage or current or even a digital output. The generated signal can be then used to display the measured current in an ammeter, or can be stored for further analysis in a data acquisition system, or can be used for the purpose of control.

Voltage Sensor

A voltage sensor is used to calculate and monitor the amount of voltage in an object. Voltage sensors can determine both the AC voltage or DC voltage level. The input of this sensor can be the voltage whereas the output is the switches, analog voltage signal, a current signal, an audible signal, etc.





Machine Monitoring Preventive Maintenance

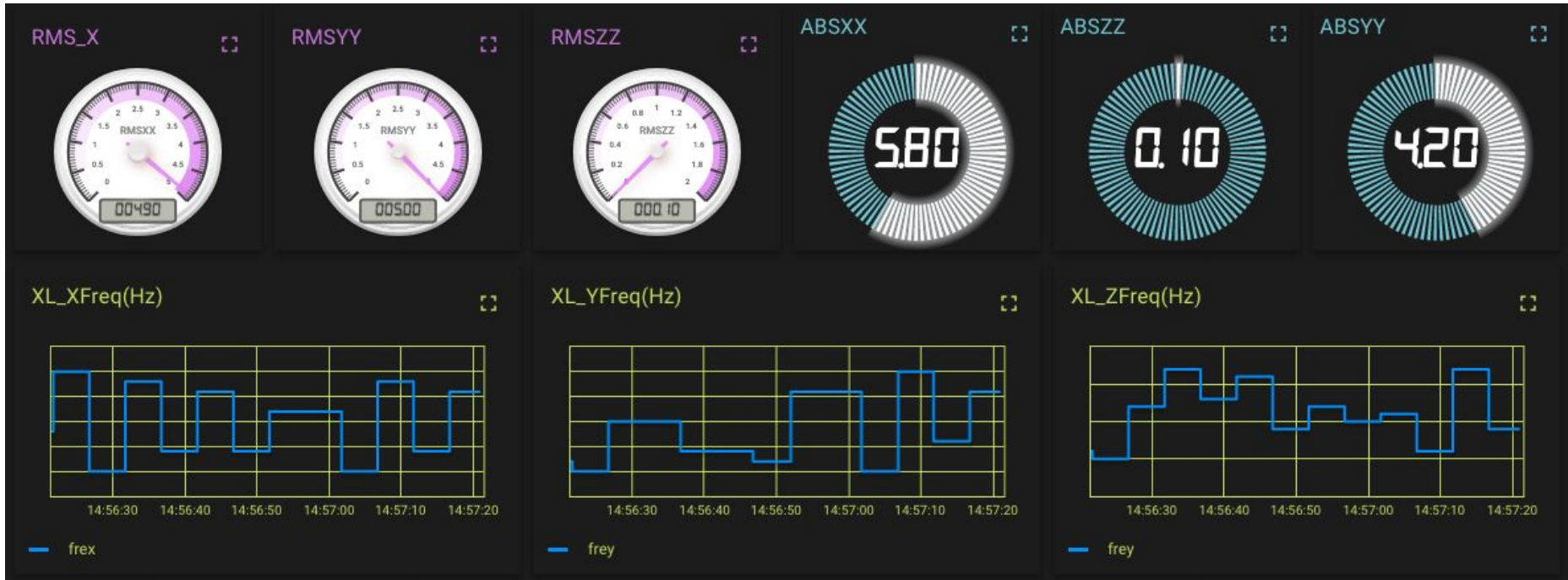
Key Drivers

- RPM, vibration, noise, temperature monitoring
- Monitoring of start/stop of a machine, start/stop of a job etc
- Trigger events based on thresholds e.g. send email or text
- Preventive maintenance notifications
- Realtime and historical data, chart, reporting

Solution

- Network of wired and wireless sensors, access points and gateways providing real time update of various machine parameters
- Integration with existing systems
- Data analytics
- Mobile app and dashboard with real time tracking and simplified reporting

Machine Monitoring Dashboard





Machine Monitoring Preventive Maintenance

Features & Benefits

- Bluetooth, BLE to Ethernet Gateway
- Helps to improve the efficiency of machine and metrics to improve the process to make better decisions
- Easy to Install
- Compact and low cost
- Accuracy : High and Stable

Who is it for

- Manufacturing plants
- System integrators
- Maintenance service providers

Thank you!