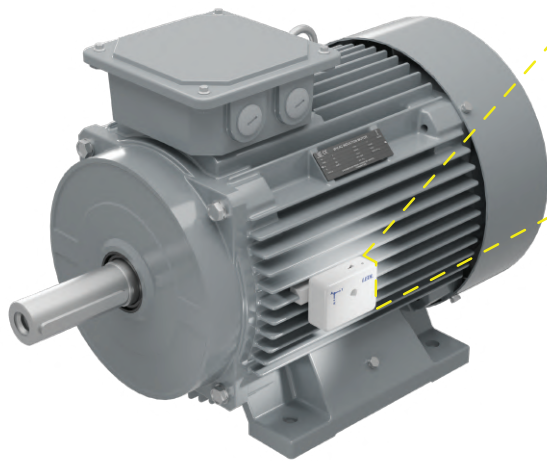


LEDL Smart Scan

LEDL Smart Scan – an advanced IoT-based motor monitoring solution designed to enhance the reliability, performance, and lifespan of industrial motors. Designed for seamless integration with your existing systems. Smart Scan delivers real-time data, AI-driven diagnostics and predictive maintenance capabilities all aligned with Industry 4.0 standards.

Supported Measurements

- Global Vibration: 3 axes (Every 15 minutes)
- Vibration spectrum: 3 axes 100Hz @ ± 16 g
- Surface temperature: 2°C to 150° C (Every 15 minutes)
- Running Time (h): Every 10 minutes



IoT Kit Mounted in Motor



Dimension(W x D x H): 68.5mm x 49mm x 28mm

Technical Data

- Power Supply: 5V DC Power Adapter
- Suitable for Operation with all (Direct online, soft-starter, and variable speed drive)
- RF Module Frequency Range: 2402 – 2480 MHz , Bluetooth 2.4 GHz : Version BLE 5 (LE)

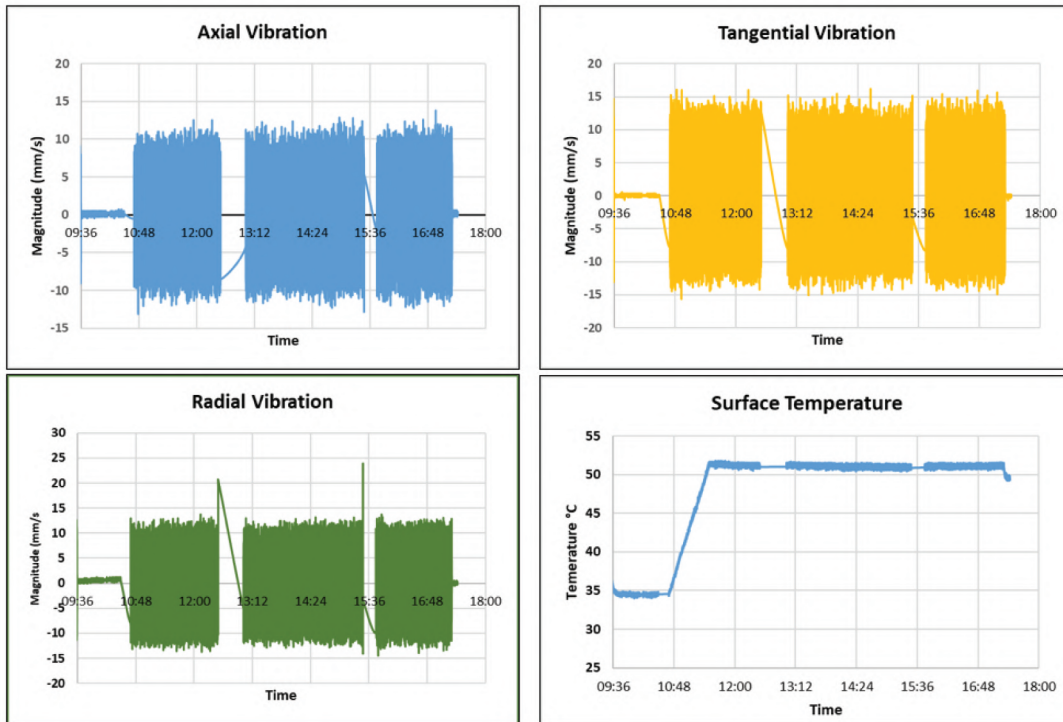
Key Features of IoT Motor Scan:

- 1.Real-time Monitoring** : Sensors attached to the motor collect data on various parameters such as temperature, vibration, running time, load, speed, and lubrication intervals
- 2.Data Transmission** : The collected data is transmitted to the server or Gateway, allowing for remote analysis and management
- 3.Predictive Maintenance** : By analysing the data, the system can predict potential issues before they occur, helping to reduce downtime and optimize maintenance routines
- 4.Artificial Intelligence** : Advanced AI algorithms learn the operating patterns of the motor and detect deviations, enabling automatic identification of issues like unbalance and misalignment
- 5.Industry 4.0 Integration** : IoT Motor Scan is designed to be compatible with Industry 4.0 standards, enhancing efficiency and productivity in industrial settings

Where SMART SCAN can be used

The sensor is optimized for easy installation, making it suitable for use on both newly installed and existing motors across multiple brands. It continuously detects potential problems early through changes in temperature and vibration operational data, which is processed in the cloud and presented through a user-friendly mobile app. This allows maintenance personnel to easily assess motor condition in real-time and proactively schedule maintenance before issues arise.

Motor Data Plots (Specific Working Hours detailed data)



Application Platform (Web/Mobile)

