



Vibration Sensor

ORDER CODE: RDL850

Introduction

Vibration sensor is designed to track asset's health and provide insights of asset conditions to the maintenance teams that may lead to equipment failure & avoid the need for major repairs. Vibration sensors are commonly used in predictive maintenance and condition monitoring.

Key features

- 3-axial MEMS accelerometer
- Configurable communication mode RS485 Modbus RTU / WiFi / Bluetooth
- Support monitoring 10 different set frequency components of the system.
- Built in FFT Algorithm for vibration analysis
- High resolution & measurement at up to ± 16 g
- Configurable Measuring Range ± 2 , ± 4 , ± 8 , ± 16
- Configurable Bandwidth up to 3.2KHz

Applications

- Machine vibration monitoring, e.g. Motors, Compressors, AHU, Gearbox, Pump etc.
- Vibration measurement and alarm triggering
- Predictive maintenance and Condition monitoring;

SPECIFICATIONS	
Sensor	3-axial MEMS accelerometer
Measurement range	± 16 g
Resolution	0.001g
Sampling rate per channel	Up to 6.4 KHz
Wired Communication	
RS485	
Duplex type / Protocol	Half Duplex / MODBUS RTU
Number of receivers on bus	32



Data rate	115 Kbps
Wireless Communication	
Wi-Fi	802.11 b/g/n/e/I (802.11n @ up to 150 Mbit/s)
Bluetooth	V4.2 Bluetooth low Energy (BLE)
Supply Voltage	
Power source	DC 24 V 1 Amps
Mechanical	
Dimensions	84mm x 59mm x 34mm
Weight	60g
Environmental	
Operating Temp	0 ⁰ C to 60 ⁰ C
IP Rating	IP68