LoRaWAN Single Axis Vibration Sensor Ex WSLRWX-V1M

SKU: WSLRWX-V1M

Doc No: WSLRWX-V1M-DS-EN-10

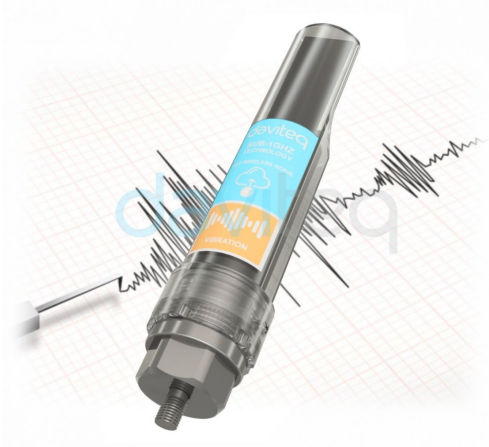
Introduction

WSLRWX-V1M is a LoRaWAN single axis vibration sensor for hazardous Zone 2/21 application. With Ultra-low-power design and smart firmware allow the sensor to run on a 2 x AA battery 3.6V in 10 years. It can support all LoRaWAN frequency regions in over the World.

- MEMS 0.5 - 1500 Hz bandwidth;
- Built-in temperature sensor;
- LoRaWAN Class A;
- 10 years of battery life;
- For Hazardous zones 2/21

Typical Applications

- Vibration monitoring for Machine, Motor, Pump, Piping...



Reference Picture

Specification

SENSOR SPECIFICATION	
Sensor technology	MEMS
9-Parameter Measurement	Acceleration RMS & Peak Velocity RMS & Peak Displacement RMS & Peak Crest Factor Frequency & Temperature
Acceleration Range & Shock Limit (g)	±16, 10,000
Frequency Response and Resonant (Hz)	0.5-1500, > 4200
Non-Linearity	±0.2% FSO
Noise	+/- 20 mg
Temperature Drift at Zero G	+/- 1 mg/oC

Total accuracy	< 4% of Reading
Temperature measuring and operating	-40°C.. +105°C, with accuracy: +/- 0.5 and resolution: 0.125
Sensor housing material, rating	304SS, IP67
Mounting	Stud mount M6, Adhesive Mounting Base
LoRaWAN SPECIFICATION	
Frequency zones	EU868, IN865, RU864, KR920, AS923, AU915, US915
SPF Factor	SF7..SF12
Tx Power	+20 dBm max
Antenna	Internal Antenna 2.67 dbi
Configuration	via Downlink or offline USB cable (PC software is supplied for free)
Battery	02 x AA Type 3.6V LiSOCl2
Certification	CE (RED), FCC, IECEx Zone2, Zone21
Marking	Ex ic ec IIC T6 Gc
Working temperature	0°C..+70°C (using LiSOCl2 battery)
Dimensions	H100xD42
Net-weight	< 200 grams
Electronic Housing	Polycarbonate, IP67

Ordering Code

Item code	Descriptions
WSLRWX-V1M-016	LORAWAN SINGLE AXIS VIBRATION SENSOR, MEMS 1500HZ, INTERNAL ANTENNA, TYPE AA BATTERY, IP67, ZONE 2/21, 16G
ACC-V1A-BASE-01	304SS ADHESIVE BASE FOR VIBRATION SENSOR, 25.4X10, M6X1.0X7,5

⚠ Link for full datasheet:

⚠ Link for manual:

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