



ORL642-Ex

Orlando Series Wireless Sensor

The IIoT Smart Sensor for Industry 4.0

RELIABLE, FLEXIBLE, AFFORDABLE

agen.co.nz

Key Features



3-Axis Vibration

3-Axis Vibration and Temperature Sensing



Auto Wake

Auto Wake Up on High Vibration



Wi-Fi Enabled

Connect via Wi-Fi and Update Firmware and Configure Online



Intrinsically Safe-Certified

Safe for Use in Hazardous Environments



Long Battery Life

Up to 5 Years of Battery Life



Water & Dust-Proof

IP67 Water & Dust Proof



Internal Data Storage

Up to 3 Months of Internal Data Storage



Small Form Factor

Compact Design with Internal Antenna

Specifications

Product Model	ORL642-Ex
Number of Axes	3-Axis Simultaneous
Support Recording Types	Vibration Waveform, Spectrum, RMS Overalls, Band Alarms, Temperature
Vibration Range	± 32g
Number of Samples	2048, 4096, 8192, 16384
FFT Number of Lines	1024, 2048, 4096, 8192
Sampling Rates Supported	100 Hz, 200 Hz, 400 Hz, 800 Hz, 1600 Hz, 3200 Hz, 6400 Hz, 12800 Hz, 25600 Hz
Fmax Supported	50 Hz, 100 Hz, 200 Hz, 400 Hz, 800 Hz, 1600 Hz, 3200 Hz, 6400 Hz, 10000 Hz
Fmin Supported	0.1 Hz
Battery Life	Up to 5 years
Wireless Transceiver	2.4 GHz Wi-Fi 802.11b/g/n
Wireless Range	150m line-of-sight
Operating/Measured Temperature	-40 °C to 80 °C
Dimensions	43 mm x 72 mm
Weight	255g

Measurement Types

Each measurement can be configured for a different schedule interval. Measurements can be triggered by Auto Wake Up on High Vibration or High Temperature with user defined thresholds.

Vibration Time Waveform	User configurable sampling rate and number of samples, in acceleration unit g
Vibration Spectrum	User configurable frequency band, support both acceleration and velocity units
Vibration RMS Overall	User configurable frequency band, and alarm thresholds. Support both acceleration and velocity units
Temperature	User configurable alarm thresholds value in °C

Certifications

General Certifications and Compliance

- ✓ CE
- ✓ RCM
- ✓ EMC 61326
- ✓ IP67
- ✓ Lead-Free

Ex (Intrinsically-Safe) Certifications

- ✓ ATEX II 3 G Ex ic IIC T4 Gc
- ✓ IECEx ExTC 20.0003
- ✓ Ex ic IIC T4 Gc -40°C ≤ T_{amb} ≤ +80°C