

Vibration Monitoring

Spec Sheet

AssetWatch Vibration Analysis

- Triaxial accelerometer and temperature sensor
- Capable of multiple sensor readings per day
- Ability to invoke manual readings
- Ability to change sample size and frequency

ASSETWATCH VIBRATION SENSOR

VERO-VT-02



MECHANICAL SPECIFICATIONS

Sensor Module Height: 2.64" [67mm]
Sensor Module Diameter: 1.6" [42mm]
Sensor Module Weight: 5.8oz [165g]

Mounting Methods:

Magnet, epoxy, or threaded studs
Stud dimension: 1/4-28 UNF tapped hole
Ruggedized enclosures
Corrosion resistant
Aluminum base

HARDWARE SPECIFICATIONS

Bluetooth Low Energy (2.4 GHz)
Battery 3.6V, Li-SOCl₂

Maximum output power

6.3mW (8dBm)

SENSOR DATA

Triaxial Accelerometer

Mechanical response: 8.2kHz (x), 8.5kHz (y), 5.6kHz (z)
Measurements up to +/-64g, 16-bit @ 25.6kHz sample rate
Fmax: 12.5Hz - 12.8kHz
Lines of Resolution 256-8192 (4096 default)
Bin Width Range: 0.049 - 3.125 Hz

Temperature Sensor

Measurement Range: -40°C to +125°C (-40°F to +257°F)
Accuracy of +/- 1°C

ENVIRONMENTAL AND REGULATORY

- Ingress protection (Tested to IP68 and IP69K)
- Enclosure Rating: MET Certified to NEMA Type 6P
- Safety Rating: MET Certified to UL/CSA C22.2 61010-1
- Operating Temperature: -40°C to +85°C (-40°F to +185°F)
- EMC: FCC Part 15 / ISSED ICES-003, Class A

ASSETWATCH HUB

AW-HB-03 (HUB)

MECHANICAL SPECIFICATIONS

Hub Height: 9.85" [250 mm]
Hub Width: 7.85" [199 mm]
Hub Depth 3.89" [99 mm]
Hub Weight: 4 lb [1.81 kg]

HARDWARE SPECIFICATIONS

Wi-Fi connectivity available
LTE connectivity available
Wi-Fi 4, operates at 2.4 GHz
WPA2 with AES encryption
Bluetooth low energy operates at 2.4 GHz and adheres to BLE spec 5.x
AC Input: 100-125 V~ 50/60 Hz, 0.65 A
Max power draw is 30W



ENVIRONMENTAL AND REGULATORY

- Installation Environment: Indoor and Outdoor Use
- -40°C to +70°C (-40°F to +158°F)
- Communication range with clear line of sight: 275 m (902 ft)
- Ingress protection (Tested to IP65)
- EMC: FCC Part 15 / ISSED ICES-003, Class A

✓ Hazardous Location Sensor available for C1D1, C1D2, C2D1, and C2D2 environments

✓ Hazardous Location Hub Enclosure available for C1D2 and C2D2 environments

