TIMKEN

TIMKEN® WIRELESS SENSOR AND MONITORING SOLUTION

SPECIFICATIONS



SENSOR SPECIFICATIONS

Vibration

- Acceleration measurement on 3-axis Axial, Horizontal and Radial
- Dynamic range +/- 4G (configurable to 2, 4, 8 or 16)
- Frequency range 10-1000Hz
- Sampling rate 6600Hz
- Resolution 16-bit

Temperature

- Measurement range -40°F to 212°F (-40°C to +100 °C)
- Resolution 32.18°F (0.1°C)
- Accuracy +/- 32.54° F (+/- 0.3°C) (mounting dependent)
- Repeatability +/- 32.18°F (+/- 0.1°C)

Wireless communication

- 2.4GHz / Wirepas Mesh

Battery

- 3.6V lithium thionyl chloride
- Battery lifetime est. 5 years (Battery life is dependent on operating temperature and configuration)

Dimensions

- 3 13/16" total height (96.83 mm)
- 3 3/8" body height (85.73 mm)
- Mounting to 1/8-27 NPT thread
- Weight .34 lbs (152g)
- Cover material 316 ss
- Top cap material PE HD

Environment

- Operating -40°F to 185°F (-40°C to + 85 °C)
- Storage 86° F maximum (30 °C maximum)
- IP67

Certifications

- CE, FCC, ISED

Software

- Device management via the application
- Software updates
- Changing measurement interval



GATEWAY SPECIFICATIONS

FEATURES

- Connect sensors via Wirepas mesh.
- Two connectivity options. Wireless with 2.4GHz Wi-Fi and wired Ethernet connection.

COMMON SPECIFICATIONS

- Dimensions: 3.84in x 72in. (ø95mm x 18.3mm)
- Weight: .19 lbs (85g)

Materials

- Cover material: Polycarbonate

Environment

- Operating temperature: 32° F to 155°F (0°C to +50°C)
- Storage temperature: -40° F to 85° F (-40°C to +85°C)

TECHNICAL SPECIFICATIONS

Power supply

- Power supply 5V DC

Hardware

- ARM Cortex-A8 1GHz Processor
- 1 GB DDR3L RAM
- 16 GB eMMC Storage

Connectivity

- Ethernet
- Wi-Fi, 2.4GHz 802.11b/g/n
- Wirepas 2.4GHz

Software (Timken Dashboard)

- Measure triaxial vibration
- Measure temperature
- Set alert thresholds
- Create and manage groups
- Detect anomalies
- Email alerts

ENCLOSED GATEWAY SPECIFICATIONS



FEATURES

- Enclosure with IP66/IP67 rating for rough conditions.
- Two connectivity options. Wireless with 2.4GHz Wi-Fi and wired Ethernet connection.

COMMON SPECIFICATIONS

- Dimensions: 7 in x 5 in x 3.19 in (180 x 130 x 81mm) (excluding cable sealing clamps)
- Weight: 1.4lb (632g) without power cord
- Mounting: Wall mounting with wall mounting lugs

Materials

- Cover: Polycarbonate
- Gasket: TPE

Environment

- Operating temperature: -4°F to + 122°F (-20°C to +50°C)
- Storage temperature: -40°F to +185°F (-40°C to +85°C)
- Humidity: 20 to 90%, noncondensing pressure equalizer

Ratings

- IP rating: IP66/IP67 enclosure, IP44 integrated power cord
- Impact Resistance: IK08 (EN 62262)

TECHNICAL SPECIFICATIONS

Power supply

- Voltage range 85 to 264 VAC
- Frequency range 47 to 440 Hz
- Power consumption 30VA max

Gateway Hardware

- ARM Cortex-A8 1GHz Processor
- 1 GB DDR3L RAM
- 16 GB eMMC Storage
- Power supply 5V DC

Connectivity

- Ethernet
- Wi-Fi, 2.4GHz 802.11b/g/n
- Wirepas 2.4GHz

Software (Timken Dashboard)

- Measure triaxial vibration
- Measure temperature
- Set alert thresholds
- Create and manage groups
- Detect anomalies
- Email alerts

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

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