

GTI-220 Generation 3 Wireless 2 Axis Accelerometer

Description:

The **first** and **only** true 2 axis wireless sensor on the market. Our generation 3 GTI-220 wireless accelerometer contains an internal biaxial sensor with an external channel to connect tachometer for balancing applications or an additional sensor for phase measurement. This sensor has increased ergonomics enabling the user to more easily move the sensor from machine to machine. This GTI-220 generation 3 is more compact than its predecessor, allowing usage in hard to reach and tight spaces. Overall, generation 3 is more rugged and contains elements such as Quattro gaskets for a 2x sealed wall in order to be explosion proof and the new battery orientation prevents stray vibration. The accelerometer is waterproof allowing it to survive in harsh environments. A USB port is available for external power enabling long-term measurements.

Features:

- Works out of the box with all existing apps
- Supports tachometer for balancing
- Supports 2nd accelerometer for apps that require it
- USB Power Input provides easy permanent mount setups
- 30 day standby battery, with 12 hours of continuous use
- Easily swappable low cost battery and/or rechargeable replacements



Includes:

GTI Wireless Sensor and Receiver, 3 batteries, "Getting Started Guide", Rare Earth Magnet Base

Benefits of GTI's Wireless System

- **Safety:** Separate the accelerometer from the iPad to measure assets in dangerous areas.
- **Convenience:** No more dealing with wires, connectors and other hassles.
- **Universal Support:** Out of the box support for any USB device or computer that has vibration analysis, balancing or other related software. Both internal accelerometer and external input channel work across multiple devices with appropriate software.
- **Permanent Mount Setups:** USB power supply enables sensor to continuously monitor.
- **Balancing:** GTI's wireless accelerometer was designed from day one to support a tachometer to enable wireless balancing. Every unit is capable of balancing, even if the balancing upgrade wasn't purchased initially.



Specifications:

- **Battery type:** CR123 lithium
- **Physical size (without magnetic base):** 52mm height, 64mm width, 63mm length (including connector protrusion)
- **External sensor input connector:** M12 male
- **External input sensor excitation voltage:** 3.3V
- **Power input voltage:** 5V through IP67 style mini USB-B connector
- **Case Ingress Protection:** IP65
- **Sampling rate:** 44,100 sps or 48,000 sps (host device dependent)
- **Operating Temperature range:** -65 to +185°F
- **Range:** $\pm 20g$ / $\pm 200g$ ms²
- **Mounting:** 1/4"-28 female thread
- **Base Material:** Stainless steel
- **Case Construction:** Glass filled polyamide
- **Button Material:** Glass filled polyamide
- **Button Indicator Color:** Red
- **Button Ingress Protection:** IP67
- **No Latency**
- **Wireless Spectrum:** 2.4 GHz
- **Analog Digital Conversion Rate:** 44,100/48,000 sps

Expanding the GTI-220

Channel 2 Add-Ons

Tachometer and Accelerometer

The second channel of the GTI-220 supports either a tachometer or an accelerometer. The tachometer enables balancing, phase analysis, and other custom applications. The accelerometer can be used for testing vibration transmissibility. VibePro also supports both channels; displaying both channels simultaneously.

- Tachometer Apps: BalancePro, iRotorBalancer, PhasePro, Balance3W
- Accelerometer Apps: VibePro, Vibration Transmissibility

