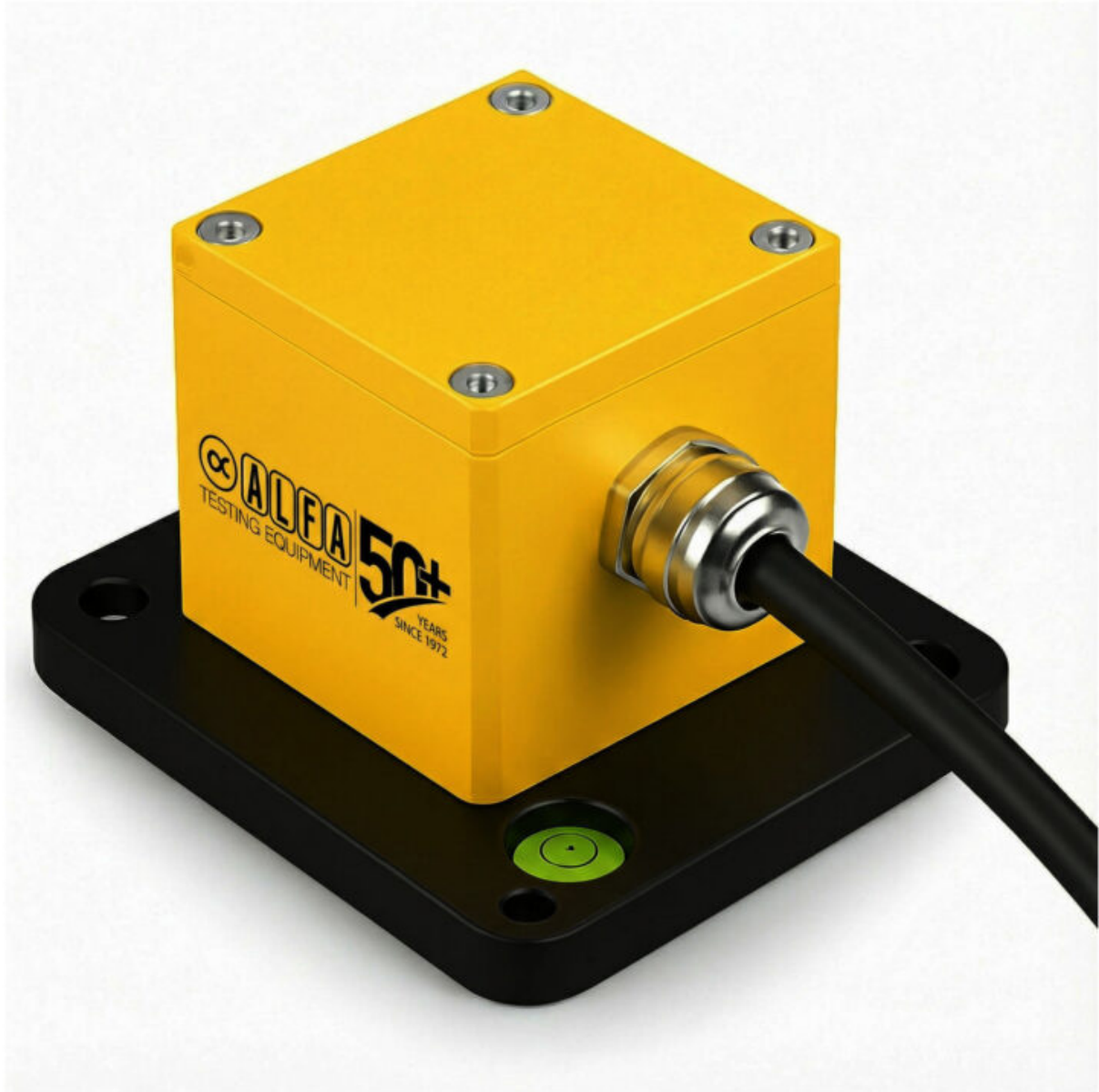


TRIAXIAL ACCELEROMETER (N430)

Category: Monitoring



Product Code: N430

Category: MONITORING

Sub-Category: SENSORS

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- Designed for strong-motion, structural health monitoring, vibration assessment, and dynamic response evaluation of buildings, bridges, foundations, and civil engineering structures. This triaxial digital accelerometer provides stable, low-noise, and high-resolution measurements suitable for engineering, research, and monitoring

applications.

- The digital sensor architecture provides excellent linearity, thermal stability, and long-term drift performance, ensuring reliable measurements even under fluctuating environmental conditions. Internal temperature monitoring enables drift compensation and enhances data integrity.
 - The system includes configurable anti-alias filtering, digital signal conditioning, and synchronized timestamping, providing clean, consistent data for structural analysis, modal testing, and earthquake engineering studies.
 - The unit operates entirely through USB power and communication, allowing rapid deployment in laboratories or field environments. Its compact, robust housing is suitable for both temporary and semi-permanent installations at monitoring points.
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TECHNICAL SPECIFICATIONS

- Number of Axes: 3 (X, Y, Z)
- Measurement Range (Selectable): $\pm 2\text{ g}$ / $\pm 4\text{ g}$ / $\pm 8\text{ g}$
- Noise Density (Typical): $\leq 25\text{ }\mu\text{g}/\sqrt{\text{Hz}}$
- Non-Linearity: $\leq 0.1\%$ FS
- Cross-Axis Sensitivity: $\leq 1\%$
- Internal Temperature Channel: Included
- Logger Sampling Rates: 1 to 1000 samples/second per axis
- Usable Bandwidth: Up to $\sim 1/4$ of selected sampling rate
- Digital Filtering: Anti-alias and configurable LP/HP filters
- Interface: USB 2.0 (Full Speed)
- Maximum Continuous Streaming: 1000 samples/second per axis
- Power Supply: 5 V DC via USB
- Typical Power Consumption: $< 1\text{ W}$
- Operating Temperature: $0\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$
- Storage Temperature: $-20\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$
- Housing: Metal enclosure
- Mounting: Rigid base with mounting holes

EQUIPPED WITH

- Integrated triaxial accelerometer
- Data Logger

SUPPLIED WITH

- Accelerometer with integrated data acquisition module
- USB connection cable
- Mounting hardware set
- PC software for live monitoring, configuration, and data export

ORDERING INFORMATION

To be added soon ...

Keywords: triaxial accelerometer, strong motion sensor, vibration monitoring, structural health monitoring, USB data logger, dynamic testing equipment, earthquake accelerometer, civil engineering instruments, high-resolution accelerometer, ALFA monitoring systems