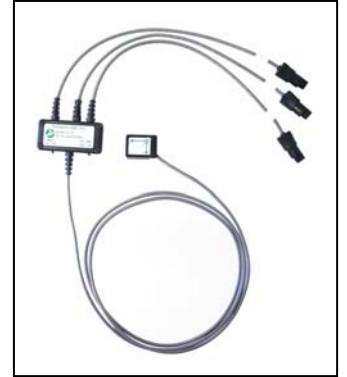


## 3D Accelerometer Sensor for Noraxon cable and telemetry systems

- Measures the acceleration forces and vibration in G
- 3 dimensions can be measured simultaneously
- Small dimensions and very lightweight
- Scaling available in standard 2G/6G or optional 16G set
- Switch turns DC Filtering on or off



### Product Overview

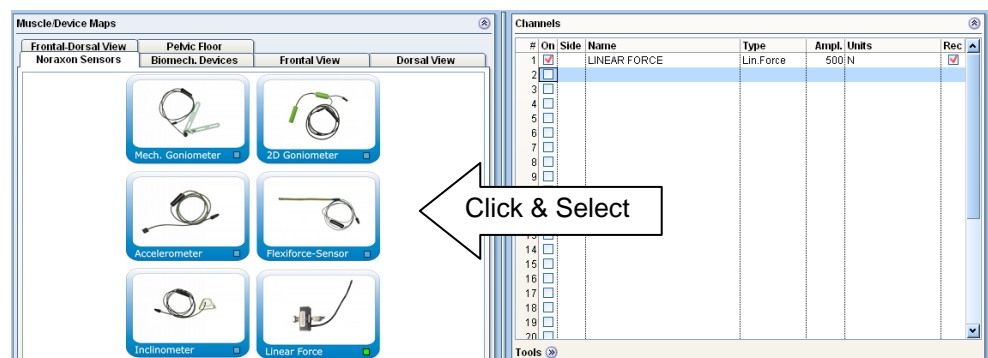
This compact and lightweight acceleration sensor is especially designed for use with human and animal surfaces and body segments. Due to its size and mass, it is easy to attach and provides accurate data. Attached to non biological material and bodies, it can measure impact forces up to 6G (Standard) or up to 16G (optional version).

### Small and lightweight construction

Due to its small size (22 by 16 mm), the sensor is easy to attach to any surface. Its very low weight (2.8gm) avoids sensor-related swinging artifacts.



The 3D Accelerometer is available as a sensor type in MyoResearch XP.



MyoResearch XP Sensor selection screen

## Application Examples

The sensor construction guarantees an effective use in a variety of application areas, such as medical research, sports analysis, rehabilitation, ergonomics and robotics. It can be used to detect ground contact (heel strike) in walking and running, motion vibration in medical tremor analysis or impact and shock impulses in sports specific equipment or ergonomic tools.



The Accelerometer is mounted (double sided adhesive tape) to the tibia bone, addressing acceleration data in gait analysis



The accelerometer is mounted to a lever arm of a weight stack training machine, addressing vibration effects within axis rotation



By using a special Velcro strap attachment, the accelerometer can easily be used to measure the tremor of patients

## Specifications

### System

- Nominal Output Range: +/- 2g , +/- 6g
- Max. Shock Survival: +/- 10,000g
- Max. Output Voltage: -5 to +5 volts
- Sensitivity: 2g: +/- 2 V/g 6g: +/- 0.67 V/g
- Error due to temperature: -0.025% / °C (from 25°C)
- Bandwidth: 5Hz – 1.8kHz
- Operating Range: 0 - 70°C

### Physical

- Sensor Length: 0.8" (2.03cm)
- Sensor Width: 0.6" (1.52cm)
- Sensor Height: 0.3" (0.76cm)
- Inline Enclosure Length: 1.63" (4.14cm)
- Inline Enclosure Width: 0.8" (2.03cm)
- Inline Enclosure Height: 0.575" (1.46cm)

### Lead

- Inline Cable Length: 42 in (~ 1m)