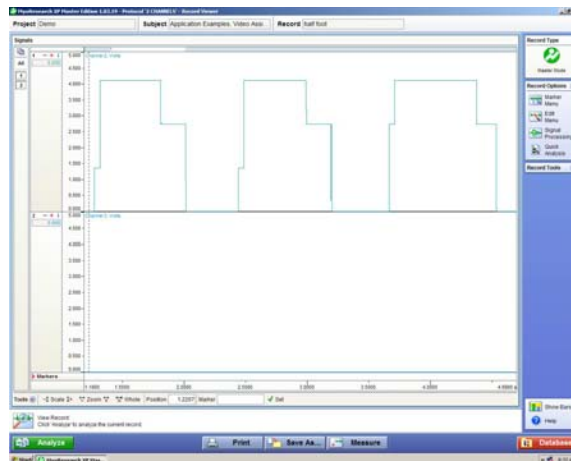




The Multi-Mode FootSwitch system senses foot-strike patterns in three different ways: Whole, Half and Quarter foot contact. The Whole foot mode detects any part of the foot contacting the ground and is useful in simple timing measurements. Half foot mode detects heel and/or toe contact while Quarter foot detects heel-toe-1st-5th metatarsal contact. The instrument is very lightweight, portable and easy to setup. The foot switch sensor sensitivity can be readily adjusted for subject weight and the sensors can be freely placed anywhere on the bottom of each foot.

Real time foot-strike data is provided by the Multi-Mode FootSwitch system, which includes four contact sensors per foot. The system is comprised of a belt-worn amplifier and cables with pluggable sensors for eight locations (4 per foot). Also supplied is a tether cable to attach the Multi-Mode FootSwitch to any analog data acquisition hardware. During use, multiple voltage levels are produced for each foot depending upon the detection mode and combination of sensors that are activated.

The Multi-Mode FootSwitch connects easily to all of Noraxon's artifact-free EMG systems. The MyoSystem™ provides a fixed-cable solution for limited range measurement of EMG/ foot switch data. The Noraxon TeleMyo™ system combined with the Multi-Mode FootSwitch takes gait analysis to a new level.



BENEFITS

- Provides real-time foot-strike data
- Can be used with adults and children
- Can be used with various systems
- Easy to replace plug-in sensors

FEATURES

- Small & lightweight
- Very portable
- Operates on two AA batteries
- Provided for use with eight individual foot sensors
- Compatible with Noraxon EMG systems

APPLICATIONS

- Research
- Rehabilitation
- Gait
- Sports
- Training

SPECIFICATIONS

System

- FSR Sensor response time ~2 ms
- Power: two 1.5 Volt batteries
- Battery Life: 40 hrs cont.
- Analog Output: 0 to +4 Volts

Amplifier Detection Modes

- Full Foot: 2 output levels (foot on/off)
- Half Foot: 4 output levels (heel and toe)
- Quarter Foot: 16 output levels (uniquely detects each sensor combination)

Mode Voltages

- Full Foot: No Pressure - 0 volts; Any sensor - 4.0 volts
- Half Foot: No Pressure - 0 volts; Heel -1.33 volts; 5th, 1st or Toe - 2.66 volts; All - 4.0 volts
- Quarter Foot: No Pressure - 0 volts; Heel - 0.267; 5th - 0.533; 1st - 1.067; Toe - 2.133; All - 4.0
- Note: 5th - Metatarsal 5; 1st - Metatarsal 1

Physical

- Length: 4.75" (12 cm)
- Width: 2.5" (6.4 cm)
- Height: .87" (2.2 cm)
- Weight: 4.8 oz (138 gm)

Foot Sensors Options

- Force Sensitive Resistors (FSR) allow custom placement and sensitivity adjustment