

## Isolated USB A/D System



The Isolated USB A/D System is an accessory unit that allows EMG signals to be safely measured in sync with other analog kinematic signals such as those coming from footswitches, goniometers, force plates or isokinetic devices. The system consists of six analog inputs that are arranged as two independently isolated sets: two- and four-channels. Preamplified EMG signals can be connected to either of the input sets and remain safely isolated from other signals.

Typically, the two-channel input set is used to measure preamplified EMG signals, particularly by the MyoTrace 200, and offers a 10-fold amplification option for weak signals. The four-channel input set (AUX1 through AUX4) collects signals from other AC or battery powered devices. Both input sets together can be used for either six-channels of preamplified EMG or kinematic data. The six analog inputs are continuously converted into a digital data stream sent to a PC through the Universal Serial Bus (USB) port. Simple software, such as NorDAQ, can be used to capture and display data onto a PC with data export capabilities allowing data analysis on other software. Noraxon's more powerful software package, MyoResearch, provides advanced analysis features in addition to data capture and display.

## Benefits

- Meets all international safety standards
- Eliminates troublesome 'ground loop' noise between systems

## Specifications

### Two Channel (EMG) Input Set

- 2500 Volts isolation
- Switch selectable x 1 or x 10 amplification
- 3.5 mm stereo connector

### Four Channel (AUX) Input Set

- 2500 Volts isolation
- Accepts inputs up to +/-10 Volts
- Separate 2.5 mm mono connector/channel

### Data Acquisition:

- 12 bit resolution 6 channels
- Selectable sample rate of 1000, 2000 or 3000 samples/sec/channel

### High Pass Cutoff:

- To DC

### Input Impedance:

- 1 MegOhm on Auxiliary channels

### Physical:

- Width: 6.25" (15.875 cm)
- Depth: 4.75" (12.065 cm)
- Height: 2.25" (5.715 cm)
- Weight: 2.5 lbs (1.134 kg)