



Product Overview

The MyoTrace™ Plus is a 2-in-1 handheld system for biofeedback training or data collection and analysis. It allows clinicians or researchers to collect and store two channels of SEMG and up to four channels of analog data to create reports and use for biofeedback.

MyoTrace Plus includes the MyoTrace 200 handheld unit and the Noraxon Isolated Analog to Digital (A/D) System. The Isolated A/D System connects to the MyoTrace 200 via a simple, lightweight cable. It has four inputs for analog signals, including kinetic or kinematic signals. Its USB port greatly simplifies interfacing to a computer and adjustable gain allows for greater flexibility in muscle measuring options. The system includes either MyoResearch XP or Clinical software for data acquisition, analysis and report generation. Data is stored permanently to a computer, and unlike most handheld SEMG devices, the data is not averaged, smoothed or manipulated in any way. Unlike other biofeedback devices, the MyoTrace can accept unfiltered raw EMG data sampled up to 3,000 Hz per channel.

Benefits

- Provides scientifically reliable data
- Monitors two muscles simultaneously with four additional analog signals
- Can be used as a biofeedback or home trainer
- Generates reports and allows for database storage for easier tracking of patient progress
- Functions as a high-end EMG system at an economical cost

Features

- Two channels of Noraxon's patented EMG amplifier technology
- Four fully isolated analog inputs to accommodate other kinetic or kinematic signals
- Complete with EMG data acquisition and analysis software
- Easy to setup and easy-to-use
- Internal six channel data acquisition system with USB connectivity
- Hardware adjustable gain to accommodate smaller muscle signals
- Meets all international safety standards

Specifications

Outputs

- USB Port: Standard type B connector
- Digital 12-bit resolution per channel

Inputs

- Two dedicated EMG @ +/- 5V max
- Four auxiliary channels @ +/-10 Volts max
- Power requirements 100-240 VAC @ 50/60 Hz (0.22 A max)

SEMG Amplifier Performance

- 1 uV sensitivity
- < 1 uV RMS baseline noise

Data Acquisition

- 12-bit resolution six channels
- Selectable per channel gain of 1,000 or 10,000 for SEMG only
- Selectable sample rate of 1,000, 2,000 or 3,000 samples/ second/ channel

High Pass Cutoff

- To DC on auxiliary channels
- 10 Hz first order on EMG channels

Low Pass Cutoff

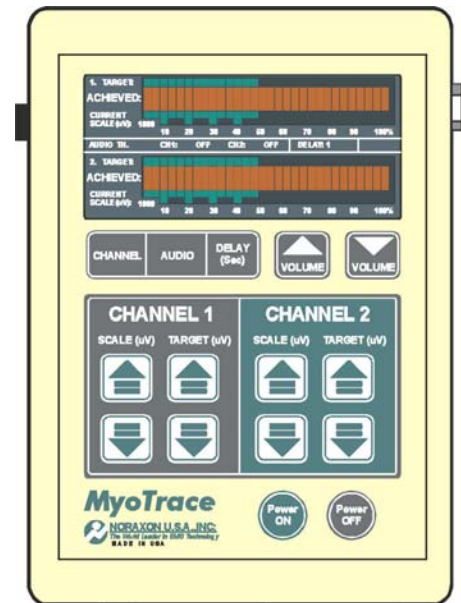
- 500 Hz on all channels
- 4th order Butterworth

Input Impedance

- 1 MOhm on auxiliary channels
- > 10 MOhm on EMG channels

Common Mode Rejection

- Min. 100 dB @ 50-60 Hz



Visual feedback capabilities

Physical Dimensions

Isolated A/D System:

- 6.25" W x 4.75" L x 2.25" H; 2.5 lbs. (15.9 cm x 12.1 cm x 5.7 cm; 1.1 kg)

MyoTrace 200 Dimensions:

- 3.75" W x 2" L x 8" H; 1 lb. (9.53 cm x 5.1 cm x 20.3 cm; .45 kg)

System Includes

- MyoTrace™ 200; Product Code: SEMG 040, 2 channel SEMG device
- Isolated A/D; Product Code: SEMG 200, Isolated A/D Unit

MyoTrace Plus is not CE certified.