



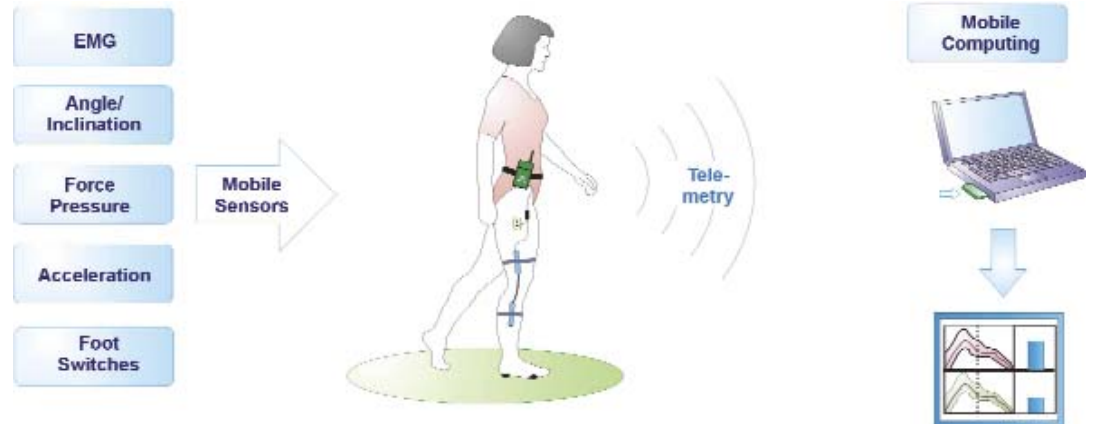
Product Overview

The TeleMyo™ 2400T transmitter is the latest generation of surface and fine-wire telemetric EMG systems that sends real-time EMG and other analog signals up to 100 yards (91.44 meters) by wireless transmission to a desktop computer or notebook. It combines high-quality, scientifically reliable data with mobility, flexibility and ease-of-use for clinicians, researchers, sports medicine professionals, ergonomists and athletic trainers. The system includes a four- or eight-channel transmitter unit, PC radio receiver card, active pre-amplified leads, battery charger, and a belt-worn system case.

The system comes fully equipped with four or eight active EMG leads. The option of purchasing additional transmitters expands the system to 16 or 24 channels of any combination of EMG or other analog signals. Virtually any analog sensor that is battery operated and works within +/- 5 volts can be connected directly to the system, such as foot switches and goniometers. With the purchase of Noraxon's optional isolation device, the TeleMyo can be used to interface with 110 or 220-volt devices such as isokinetic systems. In addition to the on-site pre-amplifiers, the "active leads" use Noraxon's patented signal amplifier technology, which provides clean, consistent and reliable data.

Benefits

- Enables unencumbered freedom of movement and acquisition from long distances
- Acquires EMG and other analog signals simultaneously for easy synchronization
- Provides scientifically reliable data
- Includes set bandwidth of 10-500 Hz for SEMG and 10-1,000 Hz for fine-wire
- Allows for flexible placement and spacing of electrodes



Mobile Sensor Concept

Features

- Ultra-lightweight and portable
- Pre-amplified active electrode leads
- Inputs can be any combination of EMG, Noraxon's biomechanical sensors and other analog data
- Wireless transmission and battery operation provide freedom of movement
- Easily upgraded to provide additional channels
- Selectable bandwidths for surface or fine-wire electrode use
- Compliant with IEC60601-1 and IEC60601-2-40 electromyography standards (CE approved)

Specifications

Power Requirements

- 6V NiMH rechargeable battery
- Comes with battery charger that operates on 110-240 VAC 50/60 Hz

Battery Life

- 4 hours (continuous use)

Output & Transmission Frequency (Depending on country)

- Up to 100 mW (depending on antenna and country allowance)
- DSSS 2412-2464 MHz on (up to) 11 unique radio channels
- Up to 300 feet (100 meters) in line-of-sight recordings
- Antenna options maximize range in specific environments

Dimensions

- 4-1/4" L x 2-1/4" W x 1-1/4" H; 14 oz. (13.34 cm x 5.72 cm x 3.18 cm; .397 kg)

Hardware Filters

- All EMG channels have 1st order high-pass filters set to 10 Hz +/- 10% cutoff
- All channels have 8th order Butterworth/Bessels low pass anti-alias filters set to either 500 Hz or 1,000 Hz +/- 2% cutoff

EMG Channels

- Baseline noise < 1 uV RMS
- Input impedance > 100 MOhm
- CMR > 100 dB
- Input range +/- 3.5 mV
- Base gain 500

Transmitter Data Acquisition System

- 12-bit resolution
- Input range +/- 5 V (full scale)
- Noise < 2 LSB
- 8 channels have individual gain settings
- EMG channel hardware gains (500) x1, x2, x4, x10
- Non-EMG channel hardware gains x1, x2, x4, x10
- Sample rates 1,500 or 3,000 samples/ second/ channel

Options

- Transmitter available as four or eight-channel instrument
- Two or three transmitters can be combined to acquire up to 24 channels simultaneously
- Special wireless modules can synchronize two transmitters at two separate locations