



Product Overview

The TeleMyo™ 2400R receiver is an accessory item for the portable TeleMyo 2400T transmitter system. This receiver station enables a conversion of the digital telemetry data to analog output signals. Up to 16 telemetry signals can be interfaced with other measurement devices such as movement analysis or force plate systems. It can also be utilized by users who have developed their own data acquisition and analysis system.

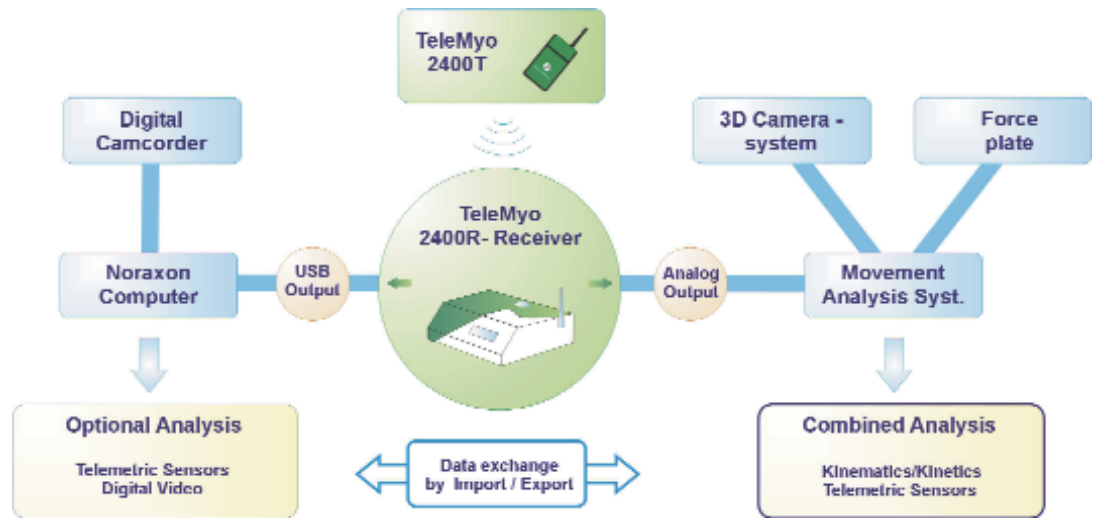
Besides the analog output, the data can also be acquired digitally by an USB/PC interface and Noraxon's MyoResearch XP analysis software. MyoResearch XP's numerous data export and import functions enable a bidirectional data exchange between different measurement devices.

A TeleMyo 2400T transmitter system combined with a TeleMyo 2400R receiver is designed with wireless LAN technology. It can be used in hospitals, research labs, and factory sites even under the most difficult conditions. Pre-amplified raw EMG signals, force, angle, acceleration, foot switches or any other sensor within the standard measurement range of +/- 5 volts can be interfaced with the 2400R unit.

Combined with the ultra-lightweight, portable 2400T transmitter, the 2400T/R System operates in a range of up to 300 feet (100 meters) in line-of-sight and allows for complete freedom of movement. Both the transmitter and the receiver can operate stand-alone and enable mobile performance.

Benefits

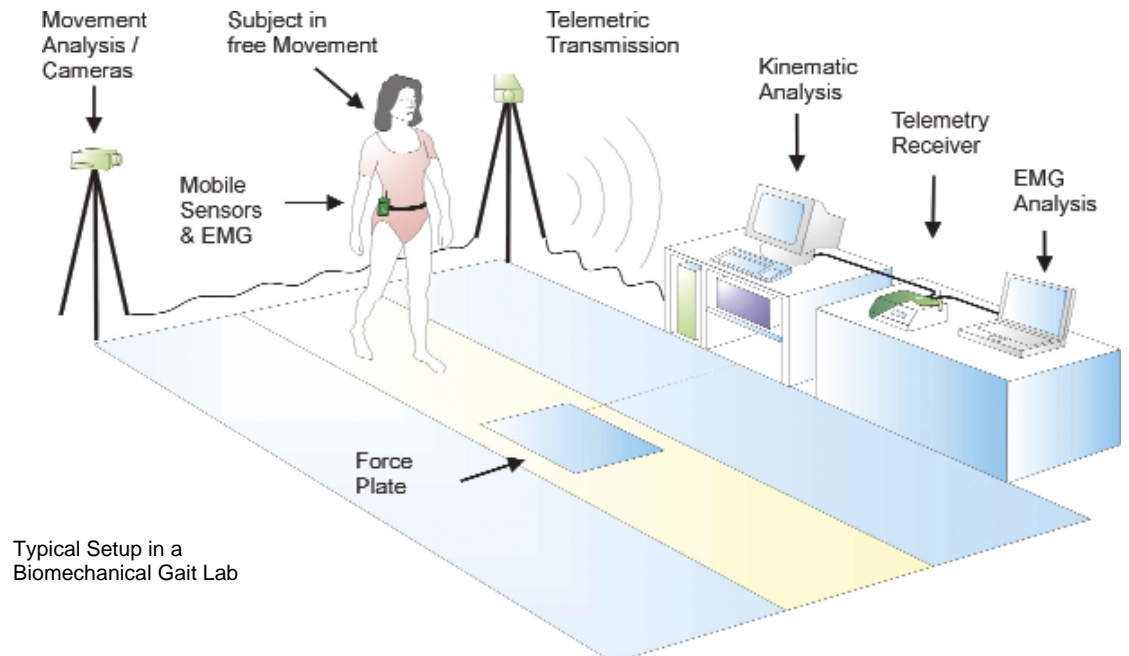
- Selectable bandwidths for surface and fine-wire EMG electrode use
- Acquires EMG and other analog data simultaneously for easy synchronization
- Provides scientifically reliable data
- Includes set bandwidths of 10-500 Hz for SEMG and 10-1,000 Hz for fine-wire
- Allows for flexible placement and spacing of electrodes
- Generates analog signals with motion measurement systems and isokinetic device signals



Example of Instrument Configuration

Features

- Ultra-lightweight and portable
- Operates both via wall power and battery, includes a “built in” battery charger
- Wireless transmission and battery operation provide freedom of movement and acquisition from long distances
- All inputs available as analog outputs for interfacing to other systems
- Compliant with IEC60601-1 and IEC60601-2-40 electromyography standards (CE approved)



Typical Setup in a Biomechanical Gait Lab

Specifications

Power Requirements

- 6V rechargeable lead acid battery
- Equipped with "built in" battery charger that operates on 110-240 VAC 50/60 Hz

Battery Life

- 3 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

Dimensions

- 7-1/2" L x 10-1/2" W x 2-1/2" H; 7 lbs. (19.05 cm x 26.67 cm x 6.35 cm; 3.18 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 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

Analog Outputs

- 16 BNC connectors and 25 dB connector
- All outputs +/- 5V max
- Signal regeneration delay: 15 ms (constant)

USB

- Standard B type connector