

1D Mechanical Goniometer for Noraxon cable and telemetry systems

- Measures angular displacement
- Gliding mechanism to compensate for axis motion
- Flexible arms for uneven surfaces
- May be cut to smaller sizes



Product Overview

The mechanical goniometer is designed for the uni-axial joint motion measurement of all major regions. It is an accurate and cost effective solution for knee, elbow, shoulder, hip and ankle joint measurements. The special construction allows for flexible use and adjustment in size.

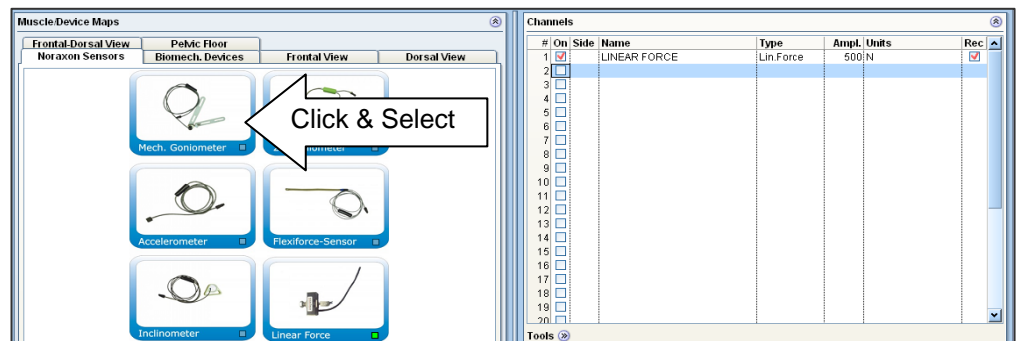
Adjustable and flexible construction

A special gliding mechanism allows for dynamic prolongation of one arm and compensates for axis movement with ROM measurements. One arm can also rotate around its own axis. Both arms are made of flexible plastic material. This construction allows the adjustment of the sensor to uneven or rounded surfaces.



Gliding mechanism to compensate axis motion

The sensor has a predefined measurement setup in all the Noraxon software packages and is operational in a few seconds:



MyoResearch XP sensor selection screen

Application Examples

The sensor covers a variety of application areas in medical research, sports analysis, rehabilitation, ergonomics, and robotics. The adjustable construction guarantees a widespread use on all major joint regions. The goniometer may also be adjusted in 2 dimensions allowing the sensor to be used on ankle joints. The sensor can be attached with Velcro straps or adhesive tape.



Application for the knee joint.



Application for the elbow joint

Specifications

Features:

- Accurate, cost effective solution to measure knee, elbow, shoulder, hip and ankle joint angles.
- Useful in a variety of research areas including: Rehabilitation, Sports, Ergonomics and Robotics.

Typical Performance of sensor:

- Nominal Output Range: +/- 160 degrees
- Max. Output Voltage: -5 to +5 volts
- Sensitivity: 25mV/ degree
- Linearity +/- 1%

Physical (sensor assembly only):

- Length: 11-11.5" (27.94-29.21 cm)
- Width: .75" (1.905 cm)
- Height: 1.625-2.00" (4.1275-5.08 cm)
- Weight: 1.2 oz (34 gm)

Physical (lead):

- Inline cable length: 42" (~1 m)