

SEN2041 Grip Force Sensor

PowerLab Sensors Series

Description

The PowerLab Sensors Grip Force Sensor is a pre-calibrated strain-gauge based isometric dynamometer with a linear response in the 0-800N range.

Operation

When force is applied to the metal bars an output calibrated in units of Newtons can be recorded in Lt. The data file below shows part of a typical muscle fatigue measurement using the Grip Force Sensor.



To use the Grip Force Sensor, plug the sensor into the USB port of a laptop or desktop computer, with a Windows or Mac operating system. Alternatively, plug the sensor into the PowerLab T1 or a USB hub connected to a computer. A green LED on the connector housing indicates the transducer is receiving power and is ready for use.

Application

Used to measure hand grip force as an indicator of muscle fatigue. Muscle activity studies can be made by simultaneously recording hand grip force with an EMG signal from various muscle groups.

Typical Data



Grip force with increasing strength

Caution

Read “Statement of Intended Use” on our website.

Specifications

Linear range:	0 - 800 N
Max. safe force:	1000 N
Accuracy:	± 5% of reading
Cable length:	1.8 m (5.9')
Weight:	345 g (12 oz)
Connector:	USB

All specifications were tested at the time of printing and are subject to change.

Ordering Information

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For use with:

Laptop or desktop computer with Windows or Mac operating system