GNN-100 Goniometer

Overview

The flexibility of joints in the body can be determined by simple range of motion (ROM) tests. These ROM exercises can aid physical therapists, athletic trainers, and physicians when they are examining joint dysfunction. Athletes and individuals who participate in physical activities generally are classified as being flexible due to the fact that their joints function over wide ranges of movement. Good flexibility may improve body position and awareness, enhance athletic performance, and help prevent injuries during and soreness after exercise. A joint's range of motion is expressed as the number of degrees of rotation that occur when the joint goes from its starting position, which is usually full flexion, through its full range of motion to its end position, which is usually full extension. The most common device used to measure range of motion is the single-axis goniometer. Examples of the types of movements that can be measured include: flexion/extension/hyperextension, abduction/adduction, and plantar flexion and dorsiflexion.

Photo

Specifications:

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Range of deflection:	+30 to +190 degrees
Connector	Mini-DIN7
power required	+/- 5VDC

Operating Instructions:

The GN-100 has two arms, one stationary and one moving, and a sensor which generates a voltage output which is proportional to the number of degrees of rotation that occur in the joint to which the goniometer is mounted. The stationary arm, which holds the sensor, is placed parallel to the stationary portion of the joint. The movable arm is placed along the moveable side of the joint. The axis of the goniometer is placed directly over the joint so that accurate measurements of the range of motion of the joint can be made along a single axis.