

MLT1040 Semi-Isotonic Displacement Transducer

Transducer Series

Description

The MLT1040 Semi-Isotonic Displacement Transducer is a semi-isotonic strain gauge and cantilever beam device, capable of measuring very slight movements in tissue preparations. The Nickel-plated steel lever can be placed in any position, offering great flexibility. Suitable for use with MLA41 Manipulator but not recommended for use with PanLab or Radnoti organ bath manipulators.



Operation

The transducer consists of a single blade and support bar, which can be attached to an adjustable support mast. Attach a wire thread or hook through the hole in the distal end of the blade. Attach the other end of the thread or hook to the biological preparation (a tissue sample, for instance). Position the transducer on the support mast until the string is taut, making sure the blade does not bend.

Application

The MLT1040 Semi-Isotonic Displacement Transducer is suitable for the measurement of muscle contractions or similar displacements from 10 mm to 100 mm. The transducer is suitable for use with a wide range of biological preparations involving both large and small animals.

Caution

Read "Statement of Intended Use" on our website or in "Getting Started with PowerLab" before use.
Do not place excessive tension on the blade.

Specifications

Sensitivity range:	10 mm to 100 mm
Signal output configuration:	full bridge
Strain gauge:	500 Ohm silicon
Material:	Case - anodized aluminium
Blade:	Nickel plated stainless steel
Cable length:	3 m (10')
Dimensions:	Body: 95 x 25 x 25 mm (3.75" x 1" x 1")
Blade:	300 mm x 13 mm x 0.6 mm (12" x 0.5" x 0.025")
Total weight:	57 g
Connector:	8-pin DIN

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

Ordering Information:

MLT1040/D Semi-Isotonic Displacement Transducer

For use with:

Any ADInstruments Bridge Amp