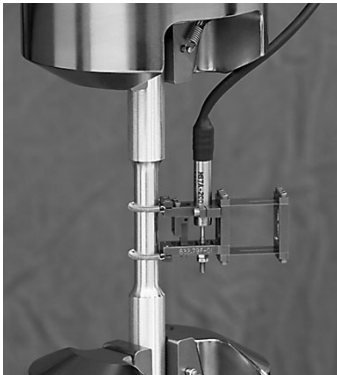


632.79 Immersible Extensometer



BENEFITS

Use In Saline Environment

► Totally immersible in saline environment with long term performance and electrical stability.

Highly Reliable

- Can leave on through specimen failure without damaging the unit—not true of many competitive models.
- Symmetrical knife-edge design minimizes susceptibility to chipping and wear.
- One-year warranty.

Versatile

► Suitable for both static and dynamic applications.

Accurate

- Low hysteresis.
- Excellent repeatability.

The MTS 632.79 Extensometer* is specially designed to provide accurate strain measurement while totally immersed in a saline solution. It is suitable for both tension and fatigue testing applications with a strain range of $\pm 20\%$. US Customary units have a gage length of 1.0 inch and a travel of ± 0.20 inch. SI Metric units have a gage length of 25 mm and a travel of ± 5.0 mm.

The 632.79 is LVDT-based to assure long-term performance and electrical stability in a saline environment. The LVDT can be replaced or exchanged with other LVDTs to provide less travel and higher sensitivity. Optional strain ranges of $\pm 4\%$ and $\pm 10\%$ are available.

The 632.79 features high sensitivity, to allow you to read small strains, and a titanium alloy flexure design, to provide high corrosion resistance. This unique flexure design allows the sensing LVDT core to stay centered in its bore throughout the travel range. No guide bearings are

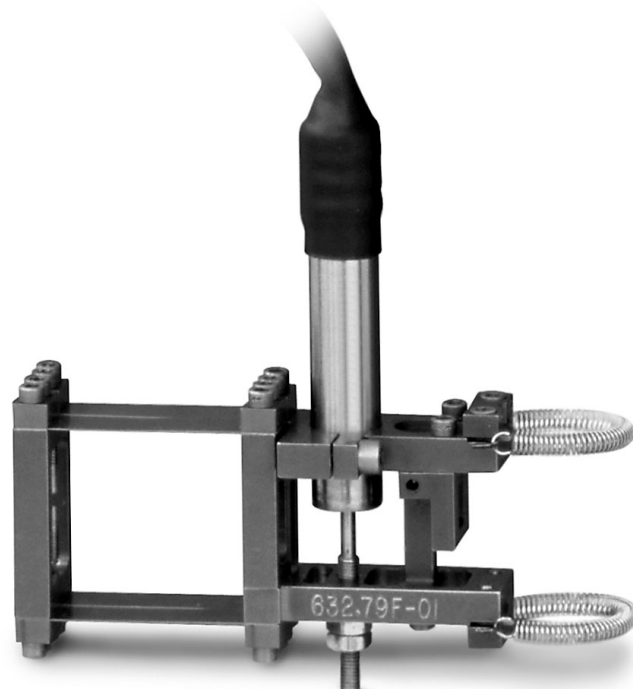
needed, so hysteresis is very low and repeatability very high.

The unit has mechanical stops that allow you to test through specimen failure without removing the unit to prevent damage. It also features a zero-set pin for accurate and consistent determination of initial gage length.

The 632.79 extensometer comes standard with hardened, replaceable knife edges for flat and round specimens. Optional knife edge sets are available for use with a variety of specimen geometries and materials. Manual attachment devices are included.

Each extensometer is packed in a rugged storage case which contains the instrument, attached cable with connector, spare parts, springs, attachment devices and tools. Instruction manuals are included with specifications and information on maintenance and operation.

*Patent pending.

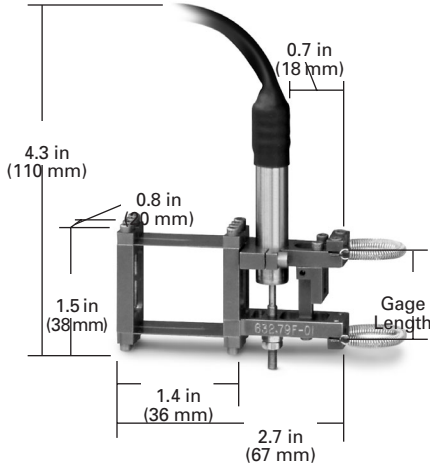




632.79

Immersible Extensometer

SPECIFICATIONS



Immersibility

- ▶ With a corrosion resistant titanium alloy flexure design and a fully immersible, miniature LVDT-based assembly, you can use this extensometer in a variety of corrosive environments including saline solution (0.9%) and Ringers lactate.

Nonlinearity

- ▶ Typical: 0.25% of range
- ▶ Maximum: 0.50% of range

Hysteresis¹

- ▶ Typical: 0.05%
- ▶ Maximum: 0.1%

Maximum Operating Frequency

- ▶ 30 Hz (at small displacements of 0.002 in (0.05 mm) or less)

Activation Force

- ▶ 60 g at 0.10 in (2.5 mm) travel

Cable Length

- ▶ 80 in (2 m)

Unit Weight²

- ▶ 72 grams.

Shipping Weight

- ▶ 1.3 lb (0.6 kg)

Connectors

- ▶ Extensometer connector: Bendix PT01A-10-6P; mating connector: Bendix PT06A-10-6S.

Calibration

- ▶ Each extensometer ordered may be calibrated by MTS using our automated calibration system at our factory or on-site by MTS Field Service. In addition, the extensometer and associated conditioning electronics may be returned to MTS for repair and recalibration.

ACCESSORIES

Adapter Cables

- ▶ For use with non-MTS test system controllers.

Gage Length Extenders

- ▶ For extending gage length up to 8.00 in (200 mm).

Mating Connector

- ▶ Bendix PT06A-10-6S, for building your own interface cable. Available with or without extension cable.

Replacement Knife Edges

- ▶ Straight for round specimens.
- ▶ Three-point for flat.

Model	Gage Length	Maximum Travel	Maximum Strain ³	Temperature Range
632.79E-01	1.000±0.002 in	±0.20 in	±20%	4° to 185°F
632.79F-01	25±0.05 mm	±5.0 mm	±20%	20° to 85°C

Notes:

¹ Hysteresis is measured over the ± maximum travel range and is specified as a percent of this full range.

² Unit weight includes extensometer, does not include cable and connector.

³ Strain is the deflection per unit of gage length (inches/inch or millimeters/millimeter).