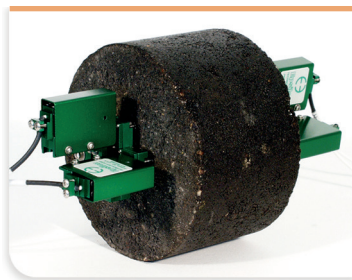


Designed to meet many of the needs for testing asphalt core

samples in 100 and 150 mm diameters (4 and 6 inch). The unit

meets test method requirements for strain measurement developed

under the U.S. Federal Highways SHRP program.



Model 3910-0100 with 1 inch gauge length

These extensometers are for creep compliance, tensile strength testing and dynamic resilient modulus testing. They are single integral, bi-axial units which measure both lateral and vertical deformations. They quickly clip onto gage points mounted per the test requirements. They mount much faster and easier than other types.

Two units are typically required, with one extensometer mounting to each side of the test specimen. They are changeable from the 1 inch centers used for 4 inch diameter specimens, to the 1.5 inch centers used for 6 inch diameter samples using optional gauge length adapters. Magnets at each end of the extensometer snap instantly in place on the steel gage points glued to the test sample. The quick attachment is most advantageous when testing pre-conditioned samples that are heated or cooled, since the extensometers can be mounted before the sample changes temperature appreciably.

The standard Model 3910 has full scale measuring range of 0.5 mm (0.020 inches). Gage points are included with the extensometers and optional gluing templates are available. This model can be converted to the Model 3909 with optional gauge length adapters.

The Model 3910 extensometers are strain gaged devices, making them compatible with any electronics designed for strain gaged transducers. Most often they are connected to a test machine controller. The signal conditioning electronics for the extensometer is typically included with the test machine controller or may often be added. In this case the extensometer is shipped with the proper connector and wiring to plug directly into the electronics. For systems lacking the required electronics, Epsilon can provide a variety of solutions, allowing the extensometer output to be connected to data acquisition boards, chart recorders or other equipment.

See the electronics section of this catalog for available signal conditioners and strain meters.



Model 3910 gluing template

Features

- Model 3910 for creep compliance, resilient modulus, and tensile strength for testing per AASHTO T322.
- Full bridge, 350 ohm strain gaged design for compatibility with nearly any test system.
- All standard units have linearity readings of 0.20% or better.
- Includes high quality foam lined case.
- Rugged, dual flexure design for improved performance.
- Easy mounting, attaches with magnets, which allows dynamic testing to 40 Hz.

SPECIFICATIONS

Excitation: 5 to 10 VDC recommended, 12 VDC or VAC max.

Output: 2 to 4 mV/V nominal, depending on model

Linearity: $\leq 0.20\%$ of full scale measuring range, depending on model

Temperature Range: Standard is -40 °C to +100 °C (-40 °F to +210 °F)

Cable: Integral, flexible Teflon® cable, 2.5 m (8 ft) standard

Operating Force: <30 g typical

OPTIONS

Gauge length adapters

Gluing template for gage points

Connectors to interface to nearly any brand test equipment

Shunt calibration module (see page 120)



ORDERING INFORMATION

Model 3910 Available Versions: Available in intermediate and larger gauge lengths on special order. Other configurations may be available with special order; please contact Epsilon to discuss your requirements.

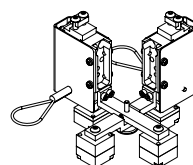
Gauge Length	
U.S.A.	
-0100	1.000"
-0150	1.500"
-0200 ¹	2.000"
-0300 ¹	3.000"
-0400 ¹	4.000"
METRIC	
-025M	25 mm
-038M	38 mm
-050M ¹	50 mm
-076M ¹	76 mm
-100M ¹	100 mm

Model Number 3910- _____

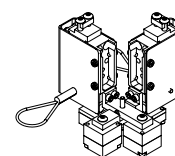
¹ Special order only.

Example: 3910-0100: 1.000 inch gauge length with a full scale measuring range of 0.020 inches

Visit our website at www.epsilontech.com
Contact us for your special testing requirements.



1.5" gauge length



1" gauge length

MODEL 3910 EXAMPLES