



Model 3909-0400 with 4 inch gauge length



180° spacing

Designed for measuring axial displacements in the simple perfor-

mance tests prescribed by NCHRP Report 465, and determining

dynamic modulus of hot mix asphalt per AASHTO TP062.



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These extensometers are typically mounted as two axial modules with independent outputs capable of measuring specimen deformations in two locations, but they can be mounted as a single unit or up to four on a sample. They quickly clip onto gage points mounted per the test requirements.

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

preconditioned samples that are heated or cooled, since the extensometers can be mounted before the sample changes temperature appreciably. For units intended to be used inside triaxial cells, extensometers are available with modules rotated 90°.

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

The Model 3909 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.

Features

- Model 3909 for simple performance testing per NCHRP Report 465, and determining dynamic modulus of hot mix asphalt per AASHTO TP062.
- Full bridge, 350 ohm strain gaged design for compatibility with nearly any
- 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

SPECIFICATIONS

Excitation: 5 to 10 VDC recommended, 12 VDC or VAC max. Output: 2 to 4 mV/V nominal, depending on model

Linearity: ≤0.20% of full scale measuring range, depending

Temperature Range: Standard is -40 °C to +100 °C (-40 °F to +210 °F) Cable: Integral, flexible Teflon® cable, 8 ft. (2.5 m) standard

Operating Force: <30 g typical

OPTIONS

Gauge length adapters Gluing fixture for gage points Connectors to interface to nearly any brand test equipment Shunt calibration module (see page 104)

ORDERING INFORMATION

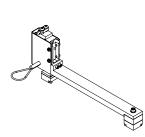
Model 3909 Available Versions: Available in intermediate and larger gauge lengths on special order. Other configurations may be available with special order; please contact Epsilon to discuss your requirements.

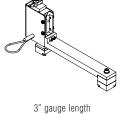
Gauge Length	
U.S.A. -0275 ¹ -0300	2.75" 3.00"
-0400	4.00"
METRIC	
-070M ¹	70mm
-076M	76mm
-100M	100mm

Model Number 3909-

Example: 3909-0300: 3.000 inch (76 mm) gauge length with a full scale measuring range of 0.020 inches (0.5 mm)

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





4" gauge length

MODEL 3909 EXAMPLES

PSILON TECH-World class quality at substantial savings.