



Model 3910 gluing template

Designed for asphalt core testing applications with core samples having 100 and 150 mm (4 and 6 inch) diameters. 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 extensioneters 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 extensioneter 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 extensioneter 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 extensioneters 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 extensioneters and optional gluing templates are available. This model can be converted to the Model 3909 with optional gauge length adapters.

The Model 3910 extensioneters 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 extensioneter is typically included with the test machine controller or may often be added. In this case the extensioneter 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 extensioneter 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 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.
- Easy mounting, attaches with magnets, which allows dynamic testing to 40 Hz.
- All standard units have linearity readings of 0.20% or better.
- Includes the Epsilon Shunt Calibration System for on-site electrical calibration.
- Rugged, dual flexure design for improved performance.
- · Includes high quality foam lined case.

## 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 of test equipment



## 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			
	METRIC			
	-025M		25 mm	
	-038M		38 mm	
	-050M <sup>1</sup>		50 mm	
	-076M <sup>1</sup>		76 mm	
	-100M <sup>1</sup>		100 mm	
	U.S.A.			
	-0100		1.000"	
	-0150		1.500"	
	<b>-0200</b> <sup>1</sup>		2.000"	
	-0300 <sup>1</sup>		3.000"	
	-0400 <sup>1</sup>		4.000"	
•				
Number 3910				

<sup>&</sup>lt;sup>1</sup> Special order.

Mode

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" gauge length

1.5" gauge length