



3911 extensometer

This model meets many of the needs for testing

asphalt core samples, in 4 and 6 inch diameters.

It meets test method requirements for strain

measurement developed under the U.S. Federal

Highways SHRP program.

For indirect tensile testing, such as for resilient modulus, these extensometers measure the lateral deformation of specimens. They are self-supporting on the sample and clip on in seconds. The traditional way this deformation has been measured was prone to errors caused by slight rocking of the sample as it is loaded. The self-supporting design of the Model 3911 eliminates this problem. This unit will handle the dynamic pulse requirements of resilient modulus testing.

The speed of mounting makes test set-up much faster than with the older method. The pivot mounting used ensures that the specimen contact pads meet the often uneven asphalt surface as well as possible. The measuring range of 0.050 inches allows a wide range of testing, yet can easily measure the sometimes very small displacements required.

The Model 3911 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.

Contact Epsilon for your special testing requirements.

Features

- Model 3911 indirect tensile extensometer for asphalt, for testing per AASHTO TP31 and ASTM D4123.
- Full bridge, 350 ohm strain gaged design for compatibility with nearly any test system.
- All standard units meet existing ASTM class B-1 and ISO 9513, class 0,5 requirements for accuracy.
- Includes high quality foam lined case.
- Rugged, dual flexure design for improved performance.
- Easy mounting with built-in breakaway feature should specimen fracture.

SPECIFICATIONS

- Excitation:* 5 to 10 VDC recommended, 12 VDC or VAC max.
- Output:* 2 to 4 mV/V nominal, depending on the model
- Linearity:* ≤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, ultra-flexible cable, 8 ft (2.5 m) standard
- Specimen Size:* Adjustable to fit both 4 inch and 6 inch diameter specimens (100 mm and 150 mm)

OPTIONS

- Connectors to interface to nearly any brand test equipment
- Shunt calibration module (see page 96)

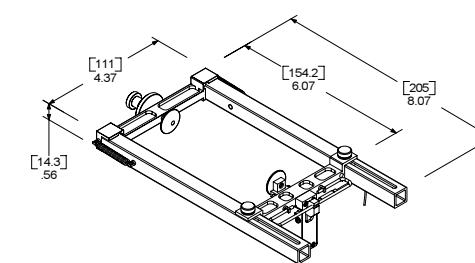
ORDERING INFORMATION

Model 3911 Available Versions: Consult factory for additional ranges.

Measuring Range	
DESIGNATION	
-0003	+0.030" (0.76 mm)
-0006	+0.060" (1.50 mm)
-0008	+0.080" (2.00 mm)

Model Number 3911- _____

Example: 3911-0006: +0.060 inches (1.50 mm) measuring range



TYPICAL 3911

DIMENSIONS: [mm] inches