



Epsilon's standard calibrator features 0.001 mm (50 microinches) resolution and has 50 mm (2 inches) of measuring range. The autozero button and digital display greatly simplify calibration of extensometers. The 3590 calibrator is useful for extensometer calibration and verification with test systems.



Model 3590 calibrator with Model 3542 axial extensometer



Model 3590 calibrator

When it comes time to calibrate your extensometers, these calibrators are easier to use and faster than any others on the market. They have enough measuring range to calibrate nearly all extensometers.

The digital display reads mm and changes to inches at the touch of a button. The autozero button is a great help in calibrating. Just press the button to start readings from zero. The digital display reduces operator error.

A wide range of adapters are available. The calibrator comes with smooth round adapters, of 9.52 mm diameter (0.375 inches). For special adapters, contact Epsilon. For very long gauge length extensometers, an optional extension post is available. An option is available for digital SPC output for interfacing with PCs. The calibrator is provided with a calibration traceable to NPL (UK standards organization).



Model 3590 calibrator storage case

Model 3590 Adapters

Enables use with a wide variety of extensometer models.



Supplied with ISO 17025 accredited calibration

Features

- Digital display
- Autozero button simplifies readings
- Adapters and extension posts available for nearly any extensometer
- Foam lined case for storage included
- System fully calibrated traceable to NPL (UK standards organization)

SPECIFICATIONS

<i>Measuring Range:</i>	50 mm (2 in) Maximum displacement
<i>Maximum Range:</i>	125 mm (0-5 in) (Maximum gauge length + displacement)*
<i>Accuracy:</i>	±0.004 mm/25 mm (±0.00015 in/in)
<i>Resolution:</i>	0.001 mm (50 µin)
<i>Temperature Range:</i>	18 °C to 28 °C (64 °F to 82 °F) operation**, -10 °C to 60 °C (14 °F to 140 °F) storage
<i>Relative Humidity:</i>	<90% (Non-condensing)
<i>Power Supply:</i>	2x SR44 Batteries (included), ~2 year life
<i>Weight:</i>	6 lbs (standard configuration)*
<i>Adapters:</i>	Ø9.52 mm (0.375") adapter set included*
<i>Environmental:</i>	EU Directive 2011/65/EU (RoHS)

* Other options available upon request

**Recommended range



OPTIONS

Optional extensometer adapter sets, extension posts, and horizontal configuration kit:

- 3590-01** Smooth, round 6.35 mm (0.25 inch) diameter adapters
 - 3590-02** Adapters for flat specimens
 - 3590-3549** Adapters for Model 3549
 - 3590-3648** Adapters for Model 3648
 - 3590-03** Adapters for clip-on fracture mechanics gages
 - 3590-04** Transverse extensometer adapters (Model 3560)
 - 3590-11** Transverse extensometer adapters (Models 3575AVG, 3575, 3475, 3580, 3565, 3911 and 3975)
 - 3590-11-KIT** Horizontal conversion kit for transverse extensometers – consists of legs for horizontal configuration, additional springs, and 3590-11 adapters; enables verification of transverse extensometers in the orientation that will be used for testing, as required by some calibration and verification standards
 - 3590-06** Adapters for large averaging extensometers (Models 3542RA and 3442RA1)
 - 3590-05** Circumferential adapters for Model 3544
 - 3590-4013** Shear adapters for Model 4013
 - 3590-3421** Shear adapters for Model 3421
 - 3590-07** 100 mm (4 inch) extension post for long gauge length extensometers
 - 3590-55-10** 250 mm (10 inch) extension post for long gauge length extensometers
 - 3590-55-24** 600 mm (24 inch) extension post for long gauge length extensometers
- Custom – contact Epsilon for adapters to fit Models 7650A, 7650, 7651, and 3567
 Note: Model 3590VHR and 3590 calibrators include 9.52 mm (0.375 inch) diameter smooth round adapters

WITH EPSILON'S IN-HOUSE LASER INTERFEROMETER SYSTEM, THE FULL CALIBRATOR SYSTEM CAN BE CALIBRATED TRACEABLE TO NPL. NO LONGER DO CUSTOMERS HAVE TO RELY ON MICROMETER HEAD ONLY OR POTENTIALLY ERROR-PRONE GAUGE BLOCK CALIBRATIONS FOR FULL SYSTEM CALIBRATIONS.

Standards Labs in most countries have signed a Mutual Recognition Arrangement CIPM MRA. This includes the NPL in the UK, NIST in the USA and many others. This makes them effectively traceable to each other. Services of the NPL are equivalent to those offered by NIST and are recognized by NIST through this agreement of reciprocity. www.bipm.org/en/cipm-mra/

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