

Epsilon's standard calibrator features 50 microinches (0.001 mm) resolution and has 2 inches (50 mm) 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 with Model 3542 axial extensometer



Model 3590 in case



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 inches and changes to mm 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 .375 inches diameter (9.52 mm). 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 Adapters
For all 3590 models.



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

Measuring Range:	2 in (50 mm) Maximum displacement
Maximum Range:	0-5 in (125 mm) (Maximum gauge length + displacement)*
Accuracy:	±0.00015 in/in (±0.004 mm/25 mm)
Resolution:	50 µin (0.001 mm)
Temperature Range:	18°C to 28°C (64°F to 82°F) operation**, -10°C to 60°C storage (40-100°F, 14-140°F)
Relative Humidity:	<90% (Non-condensing)
Power Supply:	2x SR44 Batteries (included), ~2 year life
Weight:	6 lbs (standard configuration)*
Adapters:	Ø0.375" (9.52mm) posts included*
Environmental:	EU Directive 2011/65/EU (RoHS)

* Other options available upon request

**Recommended range

Options for available adapter sets

3590-01	Smooth round posts, 0.25 inches diameter (6.35 mm)
3590-02	Adapters for flat specimens
3590-03	Adapters for clip-on fracture mechanics gages
3590-04	Transverse extensometer adapter (Model 3560)
3590-11	Transverse extensometer adapters (Models 3575AVG, 3575, 3475, 3580, 3565, 3911 and 3975)
3590-05	Circumferential extensometer adapters (Model 3544)
3590-06	Adapters for large averaging extensometers (Models 3442RA and 3542RA)
3590-07	4 inch (100 mm) extension post for long gauge length extensometers
3590-55-10	10 inch (250 mm) extension post for long gauge length extensometers
3590-55-24	24 inch (600 mm) extension post for long gauge length extensometers

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.

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EPSILON TECH-Innovative designs and factory direct sales.