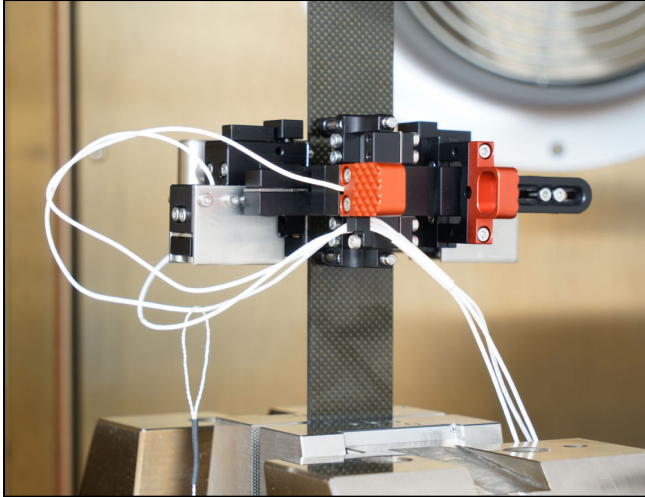


## Product Information

### Biax 2501-2 Clip-On Extensometer

CTA: 150659 150558



Biax 2501-2 clip-on extensometer

#### Applications

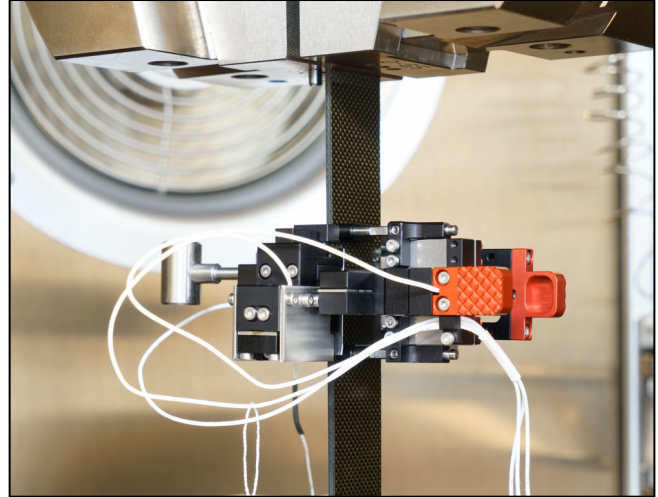
The Biax 2501-2 clip-on extensometer can be used specifically for determining extension and change in width of fiber-reinforced composite or metal specimens.

This clip-on extensometer is suitable for determination of in-plane shear strength (IPS) and Poisson's ratio.

The strain-gauge-based clip-on extensometer's wide temperature range (-70 to +175°C) makes it ideal for use in temperature chambers.

#### Function description

This biaxial extensometer is a manual clip-on extensometer.



Biax 2501-2 clip-on extensometer

It is clipped directly to the specimen and determines extension and change in width in the precision measurement range.

#### Advantages and features

- High temperature range -70 to +175°C
- For determining extension and change in width of metals and fiber composites
- Initial gauge length  $\geq 25$  mm

## Product Information

### Biax 2501-2 Clip-On Extensometer

#### Technical data

| Type<br>Item No.                                 | Clip-on extensometer biax 2501-2<br>1094607 <sup>1)</sup>          |    |
|--|--|----|
| Measuring system                                 | Two-sided strain gauge system                                      |    |
| Measurement displacement                         |  |    |
| Tensile  | 1.2  | mm |
| Compression                                      | 0.5  | mm |
| Measurement displacement for the change in width | ±0.5   | mm |
| Initial gauge length L <sub>0</sub>              | 25   | mm |
| Specimen dimensions                              |  |    |
| Round specimen, Ø                                | Up to 38   | mm |
| Flat specimen width, max.                        | 60   | mm |
| Flat specimen, thickness, max.                   | 34   | mm |
| Measurement value resolution                     | Depends on machine electronics, see machine electronics resolution |    |
| Accuracy to EN ISO 9513                          |  |    |
| -55 ... +100 °C                                  | Class 0.5  |    |
| -70 ... +175 °C                                  | Class 1  |    |
| Ambient temperature                              | -70 ... +175   | °C |
| Mounted height                                   | 39   | mm |
| Weight, approx.                                  | 200  | g  |
| Number of sensors                                | 3  |    |
| Type of output signal (extension)                | Mean value   |    |
| Type of output signal (change in width)          | Individual signal  |    |

1) USC module 2 x required

#### Accessories required

##### Required

| Description | Item number   |
|-------------|---------------|
| USC module  | <b>029443</b> |

##### Optional accessories

| Description  | Item number    |
|--|----------------|
| Safety restraint<br>For safeguarding the Biax 2501-2 clip-on extensometer during withdrawal before specimen break.   | <b>1021758</b> |
| Device for withdrawing the Biax 2501-2 clip-on extensometer <sup>1)</sup><br>For withdrawing the Biax 2501-1 clip-on extensometer inside a temperature chamber or safety device from outside | <b>1021759</b> |

1) Safety restraint required when using device for withdrawing the Biax 2501-2 clip-on extensometer