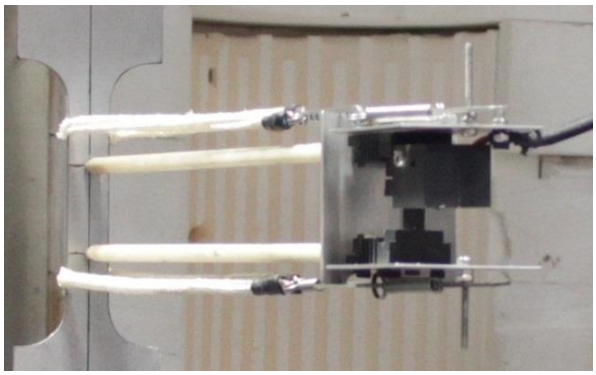
AC-07-10XX Room Temperature Extensometers

These are used for axial tensile, compression, and cyclic testing. Gage Lengths vary from 12.5 mm to 100 mm and measuring ranges from 5% to 50% of G.L. The standard mounting kit makes it possible to mount the extensometer on both round and flat specimen quickly and easily. The quick attach kit can be removed, allowing mounting of the extensometer with springs or rubber bands. Provision to increase the gauge length with standard adaptors.

AC-07-11XX High Temperature Extensometers

These are ideally suited for testing materials at elevated temperatures up to 1200^{0}C. They can be used to test both round and flat specimens to perform tensile, compression and cyclic tests. These extensometers include circuitry for auto-calibration against internal shunt reference, thus obviating the need for on-site calibration during installation. Mounting brackets to mount on to the furnace



AC-07-30XX Diametrical Extensometers

These are useful in transverse and diametrical measurements in compliance with prevailing standard practices. BiSS Diametrical Extensometers are full strain gaged bridge construction, compatible with any strain gage electronics. These extensometers include circuitry for auto-calibration against internal shunt reference, thus obviating the need for on-site calibration during installation. These strain gaged devices are compatible with any electronics designed for strain gaged

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Specifications

- 350 Ohm full bridge strain gage-based design
- 5 to 10 VDC excitation
- Sensitivity 2 to 4 mV/V
- Non-Linearity: 0.10% to 0.25% of full scale measuring range
- Temperature range: -100 °C to + 1200 °C
- Operating/Mounting force is typically 40 g
- Accuracy ASTM E 83 class B-1 and B-2 transducers.
  i. ±0.5% of read out value
  ii. ±0.25% of read out value (optional)
- Strain resolution: Down to 0.0001mm
- Auto Identification of transducer as per IEEE1451 or TEDS
- Digital auto calibration
- Digital auto zero facility

Applications

- Tensile
- Low cycle fatigue
- High cycle fatigue
- Creep
- Relaxation
- Room temperature
- Low temperature (-200^{0}C)
- High temperature (1200^{0}C)

Model No	Gage length, mm	Measuring range, mm
Room temperature axial extensometer		
AC-07-1005	12.5	+/-0.5
AC-07-1010	12.5	+/- 1
AC-07-1015	12.5	+/-1.25
AC-07-1020	12.5	+/- 2.5
AC-07-1025	12.5	+/- 5.0
AC-07-1030	12.5	+6/-3
AC-07-1035	12.5	+12.5/-5
AC-07-1040	25	+5/-5
AC-07-1045	25	+12.5/-6.35
AC-07-1050	25	+`6/-3
AC-07-1055	25	+/- 2.5
AC-07-1060	50	+/-5
AC-07-1065	50	+25/-12.5
AC-07-1070	50	+/- 12.5
AC-07-1075	75	+/-12.5
AC-07-1080	75	+25/-12.5
AC-07-1085	75	+/- 2.5
AC-07-1090	100	+/-12.5
AC-07-1095	100	+25/-12.5
High temperature axial extensometer		
AC-07-1105	10	+/- 1.25
AC-07-1110	12.5	+/- 1.25
AC-07-1115	12.5	+/- 2.5
AC-07-1120	25	+/- 2.5
AC-07-1125	25	+/-5
AC-07-1130	50	+/-5
Diametric extensometer		
AC-07-3005		2-4
AC-07-3010		4-8
AC-07-3015		8-12
AC-07-3020		12-16

Note: Specification might change without prior notification