

Vector B80

Data Sheet



Vector replaces conventional contact and non-contact sensors with a single, purpose-built instrument. This biaxial extensometer offers a 80 mm field of view.

Vector Specifications

Extensometer measurement applications	Uniaxial; Tensile, Compressive or Flexural Biaxial; Axial with central Transverse
Measurement modes	Strain (%) or displacement (mm/inches)
Field of view	80H x 30D x 30W mm cuboid
Resolution	<0.5 μ m
Extensometer accuracy class	Meets or exceeds ISO 9513 Class 0.5 and ASTM E83 Class B-1 capable
Gauge lengths supported*	Axial; 7.5 to 70 mm (0.3 to 2.75") Transverse; 6.0 to 25 mm (0.24 to 1.0")
Real-time strain data rate	150Hz
Minimal specimen width	Axial; 1.5 mm flat, 2 mm diameter round Transverse; 10 mm flat, 12.5 mm round
Minimal recommended specimen parallel section	10 mm
Maximum tracking speed	2500 mm/min
Strain control	Compliant to ISO 6892 and ASTM E8
Operating distance	285 to 315 mm
Strain output interface**	Analogue: $\pm$ 10V BNC Digital: RS232 serial 15 pin D-sub
Supported mark types***	Rings, filled circles and speckles automatically detected
Recommended specimen temperature range	-30 to +300°C
Dimensions	252H x 73D x 201W mm
Weight (Vector module only)	3.1 kg

*Minimum transverse gauge length for speckles is 7.5 mm.

**Digital output with select UTMs only, via specific adapter cable.

***Always use marking kit provided.

Imetrum disclaims any responsibility for printing errors in this data sheet.
Moreover, it reserves the right to make any changes deemed useful to its
products without changing their essential characteristics.

