Vector B80 Data Sheet

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Measuring The Industrial World

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 µm					
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")					
Representative maximum strain range and extension for selected gauge lengths	GL	8.5 mm	12.5mm	16 mm	25 mm	50 mm
	Strain Range	561%	360%	267%	147%	40%
	Extension Range	48 mm	45 mm	43 mm	37 mm	20 mm
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: ±10V BNC Digital: RS232 serial 15 pin D-sub					
Supported mark types***	Rings, filled circles and speckles automatically detected					
Recommended specimen temperature range******	-100 to +370°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.
****For optimal performance at non-ambient temperatures, please consult the provided guidance. This guidance often enables accurate results at temperatures far exceeding 370°C.

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