Vector U200 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 uniaxial extensometer offers a 200 mm field of view.

Vector Specifications

Extensometer measurement applications	Uniaxial; Tensile, Compressive or Flexural					
Measurement modes	Strain (%) or displacement (mm/inches)					
Field of view	200H x 100D x 40W 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	25 to 180 mm					
Representative maximum strain range and extension for selected gauge lengths	GL	25 mm	50 mm	80 mm	100 mm	180 mm
	Strain Range	467%	200%	100%	67%	7%
	Extension Range	117 mm	100 mm	80 mm	67 mm	13 mm
Real-time strain data rate	150Hz					
Minimal specimen width	5 mm flat, 6 mm diameter round					
Minimal recommended specimen parallel section	32 mm					
Maximum tracking speed	2500 mm/min					
Strain control	Compliant to ISO 6892 and ASTM E8					
Operating distance	250 to 350 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					

*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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