

Vector U70

Data Sheet

Vector replaces conventional contact and non-contact sensors with a single, purpose-built instrument. This uniaxial extensometer offers a 70 mm field of view.

Vector Specifications

Extensometer measurement applications	Uniaxial; Tensile, Compressive or Flexural				
Measurement modes	Strain (%) or displacement (mm/inches)				
Field of view	70H x 40D x 25W 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	10 to 50 mm				
Representative maximum strain range and extension for selected gauge lengths	GL	10mm	12.5mm	25mm	50mm
	Strain Range	400%	307%	120%	27%
	Extension Range	40 mm	38 mm	30 mm	13 mm
Real-time strain data rate	150Hz				
Minimal specimen width	2 mm flat, 2.5 mm diameter round				
Minimal recommended specimen parallel section	14 mm				
Maximum tracking speed	2500 mm/min				
Strain control	Compliant to ISO 6892 and ASTM E8				
Operating distance	280 to 320 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***	-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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