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

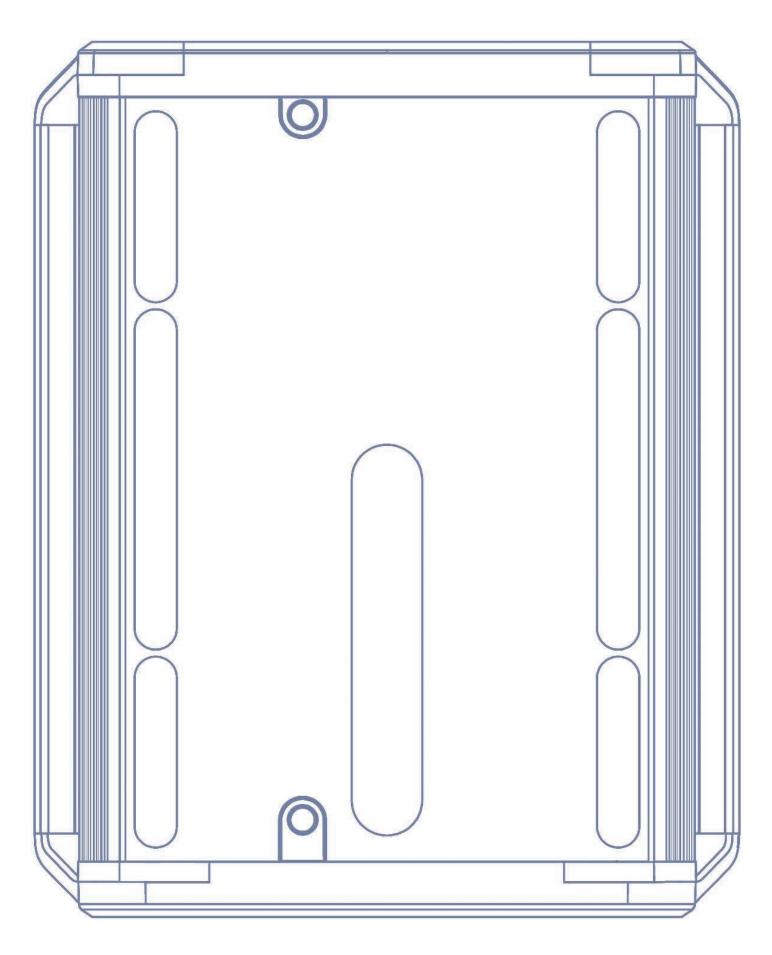
| Vector Specifications | | | | | |
|------------------------------------------------------------------------------|--------------------------------------------------------------------|-------|--------|-------|-------|
| Extensometer measurement applications | Uniaxial; Tensile, Compressive or Flexural | | | | |
| Measurement modes | Strain (%) or displacement (mm/inches) | | | | |
| Field of view | 70H x 40D x 25W mm cuboid | | | | |
| Resolution | <0.5 μm | | | | |
| 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: ±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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