Vector B80 Data Sheet

imetrum
Measuring The Industrial World

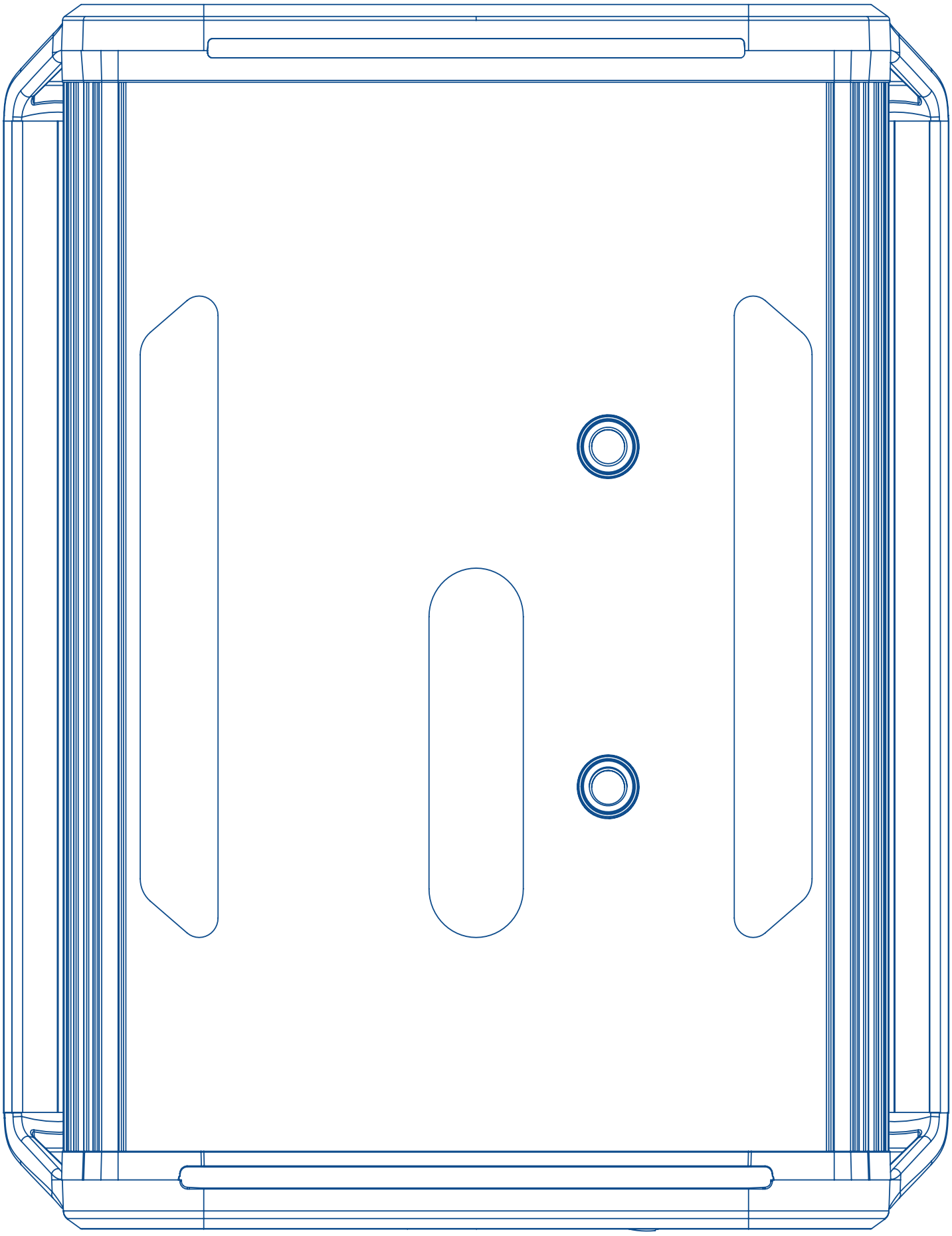
Vector replaces conventional contact and non-contact sensors with a single, purpose-built instrument. This biaxial extensometer offers a 80 mm field of view.

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”)
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	8 mm
Maximum tracking speed	2500 mm/min
Strain control	Compliant to ISO 6892 and ASTM E8
Operating distance	285 to 315 mm
Strain signal interface	Analogue ±10V BNC
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.

**Always use marking kit provided.



Vector U70 Data Sheet

imetrum
Measuring The Industrial World

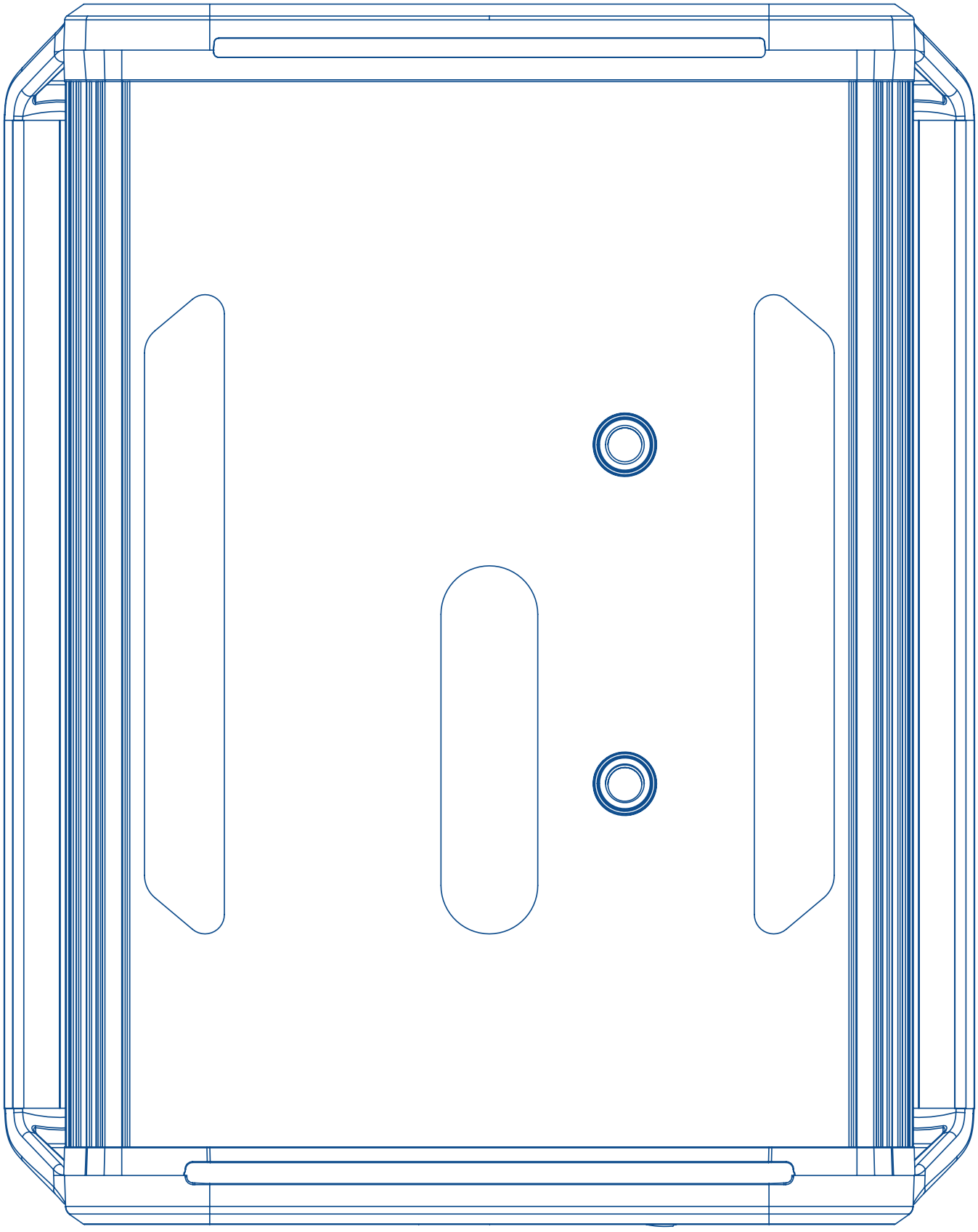
Vector replaces conventional contact and non-contact sensors with a single, purpose-built instrument. This uniaxial extensometer offers a 70mm field of view.

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 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
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	-30 to +300°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.

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.



Vector U200 Data Sheet

imetrum
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
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	-30 to +300°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.

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.