elcometer®NDT VG10 Velocity Gauge

Product Description

The VG10 is a simple hand-held velocity gauge.

Ideal for determining the speed of sound (velocity) of an unknown material or as a device to assess the homogeneity of a component of known thickness.

By simply placing the transducer probe on the material the gauge will display the speed of sound of that material at that point.

The high speed scan mode allows the operator to drag the probe across the material and when the probe is lifted from the material, the gauge displays the fastest velocity recorded during the scan.
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Advantages

- Multi calibration options: 1 point, 2 point and speed of sound for optimal accuracy
- Durable gauge and probe construction
- Tough, impact, water, dust & petroleum product resistant
- Up to 200 hours battery life
- Multi-function 4.5 digit LCD display, backlit for use in poor light conditions
- Backlight is selectable on/off/auto (illuminates only when taking a measurement)
- Measurements in metres/second and inches/microsecond
- Scan bar display indicates stability of reading

Technical Specification

Model & Part Number	VG10 Ultrasonic Velocity Gauge
Material thickness digits display	•
Measurement Mode	PE
Measurement Rate	
Manual:	4 readings per second
Scan Mode	16 readings per second
Measurement Range	0.63 - 500mm
Measurement Accuracy	±0.01mm
Measurement Resolution	0.01mm
Velocity Calibration Range	1250 - 10,000m/s
Additional Features:	
High speed scan mode	•
Transducer Probe Type	dual element
Transducer Frequency Range	1 - 10MHz
V-path / dual path error correction	automatic
Probe Zero	Manual (via integrated probe disk)
Display	12.7mm high digits
Units (selectable)	metres/second or inches/microsecond
LED Backlight	on / off / auto
Repeatability / Stability Indicator	•
Battery Type	2 x AA alkaline
Battery Life (approximate)	200 hours
Low Battery Indicator	•
Battery Save Mode	auto
Operating Temperature	-30 to 50°C
Size (w x h x d)	63.5 x 114.3 x 31.5mm
Weight (including batteries)	284g
Aluminium case design with gasket sealed end caps, waterproof membrane keypad	•
Transducer Connector Type	LEMO
RS232 Interface	for programming only

Packing List

- Elcometer NDT VG10 gauge
- Couplant
- Carry Case
- User Manual
- Test Certificate
- 2 x AA Batteries

VG10 Accessories

Cables & Adaptors

TL-24031   RS232 Cable (6'); DB-9 to Lemo
TL-24032   USB to Serial Adapter