

AD-3253

Ultrasonic Thickness Gage

Low Cost & High Technology



AND
A&D MERCURY PTY. LTD.

...Clearly a Better Value

AD-3253 Ultrasonic Thickness Gage

The AD-3253 Ultrasonic Thickness Gage is a device that uses ultrasonic waves to determine the thickness of a wide variety of solid objects from metals to plastics. It is comprised of the digital instrument that controls the operation and a probe that transmits and receives the ultrasonic waves.

● Compact and Light Weight

With a weight of only 180g, the AD-3253 is easy to carry and easy to use. Its light weight allows hours of fatigue free operation.

● Easy to Operate

Simply calibrate the AD-3253 to the material to be tested, place the probe on the test material and the AD-3253 automatically displays the correct thickness. No special qualifications or training are required.

● Easy to Read LCD Display

Displays both measured thickness and sonic velocity of the sample.



● Sonic Velocity Stored into Memory

Sonic velocities are easily entered into the AD-3253 unit through simple up and down keys. When a new entry is made, it replaces the previous entry and stores the new one until changed, even if the unit is powered off or the battery is changed.

● Low Battery Indicator

Low Battery appears when the battery is low, after which the operator has one hour of operation before battery replacement is required.

● Able to determine unknown Sonic Velocities

Simply calibrate the AD-3253 against a known test block and place the probe on the sample material of the same thickness. One button operation sets the unit to the proper thickness and the AD-3253 automatically enters the correct sonic velocity.

● Selectable Units of Measure

When performing thickness measurements, the operator is able to easily select between inches or millimeters units of measure.

● Automatic Power Off Function

The AD-3253 operates continuously for more than 30 hours off of one AA alkaline battery (25°C, 5 mm sample thickness) and, automatically powers off the unit after 5 minutes of non-use, substantially extending operating life between battery changes.

● Applications

Thickness Measurement, Corrosion Test, Inspection

● Samples

Steel, Cast Iron, Titanium, Aluminium, Copper, Brass, Glass, Ceramic, Plastic, etc.

Specifications

Measuring method	Ultrasonic pulse reflection
Thickness unit of measure	Millimeters or inches
Frequency range	5 MHz
Sampling rate	4 times/second
Thickness range	2.0 mm - 200.0 mm (0.08 inches - 8 inches)
Accuracy	± 0.1 mm $\pm 1.0\%$ (thickness range: > 2 mm < 100 mm) ± 0.1 mm $\pm 1.5\%$ (thickness range: < 200 mm) ± 0.01 inches $\pm 1.0\%$ (thickness range: > 0.08 inches < 4 inches) ± 0.01 inches $\pm 1.5\%$ (thickness range: < 8 inches)
Resolution	0.1 mm (0.005 inches) Depending on surface condition of sample
Display device	Liquid Crystal Display
Power supply	One AA dry cell battery
Battery replacement	Approximately 30 hours of operation. Low battery indicator activates when replacement is required. One hour of additional operation available after initial low battery indication.
Operating temperature	0°C - 50°C
Dimensions	68 mm (W) x 120 mm (H) x 27 mm (D)
Weight	Approximately 180g

Standard Accessories



Specifications subject to change for improvement without notice.

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