# 3812 SERIES - ULTRASONIC THICKNESS GAUGE

Starrett 3812 Ultrasonic Thickness Gauge is a menu driven, multfunctional tester with basic measurement capabilities.
This gauge is designed to measure the thickness of metallic and non-metallic materials such as aluminium, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor, as long as it has parallel top and bottom surfaces. The 3812 will accurately display readings in either mm or inch after a simple calibration to a known thickness or sound velocity.

- Upper/Lower limit preset alarm.
- Measurment and scanning capabilities.
- Extended memory.
- 20 memory groups (100 files/group).
- Minimum display unit: 0.01mm (0.001") selectable.
- 0.040-12.0" measuring range (in steel with standard probe).
- 3280-32805ft/s (1000-9999m/s) sound velocity range.
- 5MHz Frequency.
- 4Hz update range.
- USB Output.
- Power supply: Two 3V AA alkaline batteries.
- Accuracy: ± (0.5% thickness + 0.001").
- Dimensions: 150 x 74 x 33mm.
- Weight: 245gms.

| Cat No | Description |
|---|---|
| 3812 | Ultrasonic Thickness Gauge |

# 3813 SERIES - COATING THICKNESS GAUGE

The 3813 is capable of measuring the thickness of non-magnetic materials, (paint, plastic, enamel, copper, zinc, aluminium and chrome) on magnetic materials.
It is often used to measure the thickness of a galvanized layer, lacquer, porcelain, phosphide, copper tile, aluminium tile and some alloy tiles, etc.
The 3813 is also capable of measuring the thickness of non-magnetic coatings on non-magnetic metals. It is used on anodizing, varnish, paint, enamel, plastic coatings and powder applied to aluminium, brass and non-magnetic stainless steel.

- Measuring range: 0-40mils (0-100μm) max.
- Resolution: 0.1μm/0.1mils (0-99μm) or 1μm (over 100μm).
- Guaranteed tolerance (after one-point calibration): ±1-3%n or 2μm (whichever is greater).
- Minimum measuring area: 5 x 5mm (0.20" x 0.20").
- Minimum radius of curvature:
  Convex: 3mm (0.12");
  Concave: 30mm (1.2").
- Minimum substrate thickness:
  Ferrous: 0.5mm (20mils);
  Non-ferrous: 50μm (2mils).
- Zero calibration.
- Foil calibration.
- Maximum surface temperature of test object: 302˚F (maximum contact time two seconds).
- Power source: Four AA batteries.
- Includes steel and aluminium substrate samples.
- Includes four calibrated thickness samples.
- Dimensions: 161 x 69 x 32mm.
- Weight: 260gms.


| Cat No | Description |
|---|---|
| 3813 | Coating Thickness Gauge |