

## Elcometer 204 Steel Ultrasonic Thickness Gauge



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### At a glance:

Low cost method of testing material thickness

Measure material thickness when there is only access to one side eg: pipes, tanks etc.

Hand held, fast and accurate

The Elcometer 204 Steel Ultrasonic Thickness gauge is a handheld gauge providing fast and accurate measurements of the thickness of steel. The principal advantage of ultrasonic measurement over traditional methods is that ultrasonic measurements can be performed with access to only one side of the material being measured.

The Elcometer 204 is pre-calibrated for ease of use and the gauge can be “zeroed” to ensure accuracy.

Battery powered, the Elcometer 204 features an easy read backlit screen making it ideal for use in low light areas. Supplied with everything required to start measuring as soon as the gauge is received, the Elcometer 204 provides an ideal, low cost solution for measuring thickness of steel.

- **Low cost and easy to use:**  
Provided with everything required to use straight from the box.
- **Probe Zero:**  
“Zeroing” the gauge ensures correct measurements.

### Material Thickness

The thickness of materials cannot always be determined by direct measurement as access to both sides is not always possible.

The effects of corrosion and erosion at the back of a metal panel may reduce its thickness significantly yet not affect the front surface. Pipelines, for example, may appear corrosion free on the outside but can be eroded by the flow of material on the inside.

Machined or cast items may have thin walls that cannot be determined by callipers or other non-destructive tests.

<b>Range</b>	0.63mm to 199.99mm (0.025" to 19.999")
<b>Resolution</b>	0.01mm (0.001")
<b>Accuracy</b>	±2% of reading or ±0.5mm (±0.02"), depending on material and conditions
<b>Weight</b>	295g (10oz) including batteries
<b>Size</b>	63.5 x 120.6 x 31.5mm (2.5 x 4.5 x 1.24")
<b>Operating temperature</b>	-30°C to 50°C (-20°F to 120°F) depending on climatic conditions
<b>Case</b>	Extruded aluminium body, Nickel plated aluminium end caps
<b>Battery life*</b>	200 hours continuous (alkaline dry batteries)
<b>Battery type</b>	2 x LR6 (AA), alkaline dry batteries or rechargeable equivalents.
<b>Packing list</b>	Elcometer 204 Steel Ultrasonic Thickness Gauge, Transducer with calibration certificate, bottle of couplant, 2 x batteries, carrying case, operating instructions
<b>Part Number</b>	<b>C204----1</b>

\* Rechargeable batteries can be used if they are recharged outside the gauge.  
 Battery life is reduced to approximately 120 hours when using rechargeable batteries.

<b>Spares / Accessories</b>	
Transducer: Potted right angle 5.0MHz ¼"	<b>T92015646</b>
Ultrasonic Couplant	<b>T92015701</b>
High Temperature Ultrasonic Couplant	<b>T92015874</b>
Instrument Carry Case	<b>T92015617</b>
Test Wedge: 2-25mm	<b>T9205243-</b>
Test Wedge: 30-100mm	<b>T9205270-</b>

## Related Products:



Elcometer 205, 206 & 206DL  
Ultrasonic Thickness Gauges

Elcometer have a range of products to establish material thickness.

**Elcometer 205, 206 & 206DL** Ultrasonic Thickness Gauges have three calibration options can be used for measuring many different materials including steel, cast iron, plastic, epoxy resin, glass fibre etc.



Elcometer 208 & 208DL  
Ultrasonic Thickness Gauges

**Elcometer 208 & 208DL** Ultrasonic Thickness Gauges are capable of measuring material thickness whilst eliminating the thickness of the coating (on metal substrates only).  
 The Elcometer 208DL has data logging capability and data can be transferred onto PC.



Elcometer 207 & 207DL  
Ultrasonic Thickness Gauges

**Elcometer 207 & 207DL** Precision Ultrasonic Gauges are designed to provide accurate measurements on thin materials including cast iron, plastic, steel, glass, aluminium and thin plastics.  
 The Elcometer 207DL is able to store 1000 readings in 10 batches.

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