

# T-GAGE IV

The T-Gage IV is a simple to use hand held Ultrasonic Thickness Gauge. This instrument is a basic model in the Sonatest Ltd thickness gauge range which has the ability to be calibrated to a variety of different materials, using one or two point calibration.

The T-Gage IV offers features that make your job easier and has been built to perform in the roughest of industry conditions.

Packaged in an all metal case, these units are sealed with gaskets to protect them in harsh working environments.

**Resistant to both water and petroleum products.**

A dual element transducer is included. Application specific transducers are also available for Cast Iron, Plastics, Fibreglass, Steel and Glass.

Small and portable these gauges operate on 2 AA batteries for 200 hours plus. Dimensions are 63.5 mm (W), 120.7 mm (H), 31.8 mm (D).

#### **Applications include:**

- Corrosion & Pitting
- Tube & Pipe
- Tanks & Boilers
- Glass & a variety of other applications



**Make reliable measurements or scan a length of material for the thinnest point.**

**Operating for up to 200 hours on a single set of batteries.**

# T-Gage IV

# Specifications

## PHYSICAL

**Weight:** 285 g with batteries (10 ounces)

**Size:** 63.5w x 120.7h x 31.8d mm  
(2.5" x 4.75" x 1.25" inches)

**Operating Temperature:** -30° to 50° C (-20° to 120° F)

**Case:** Extruded aluminium body with nickel-plated aluminium end caps. Resistant to impact and environmentally (gasket) sealed.

## KEYPAD

Sealed membrane resistant to both water and petroleum products. Six tactile-feedback keys.

## TRANSDUCERS

Dual element (transmit & receive).

1 - 10 MHz frequency range.

Locking quick disconnect LEMO 00 connectors.

1.2m cable.

Custom transducers available for special applications.

## MEASURING

### Overall Range

Measures from 0.63 to 500mm (0.25 to 19.999 inches).

Toggle switch to select English and Metric units.

**Resolution:** 0.01 mm (0.001 inches)

### Velocity Range:

1250 to 10,000 m/sec (0.0492 to 0.3937 in/ $\mu$ s)

Four readings per second for single point measurements or 16 p/s in Scan mode, captures the minimum thickness.

Single and Two point calibration option included.

## DISPLAY

Multi-function 4.5 digit LCD with 0.500 inch numerals, backlit for use in poor light conditions.

Backlight is selectable: on/off /auto (illuminates only when taking a measurement ).

Measurements displayed in millimetres and metres/second or inches and inches /microsecond.

Bar graph to indicate reading stability.

## POWER SOURCE

Two 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 200 hours on alkaline and 130 hours on NiCad.

Display flashes when battery is low.

Unit turns off automatically when battery is too low to operate reliably.

## CERTIFICATION

Factory calibration traceable to national standards.

## WARRANTY

5 year limited.



Cert No: Q5036

Distributed by:

**Sonatest Ltd**  
Tel: +44 (0)1908 316345  
Fax: +44 (0)1908 321323  
email:sales@sonatest.com  
www.sonatest.com



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