

# T-GAGE IV MM

The T-Gage IV MM has arrived providing the ultimate in versatile technology for use in the field. This rugged, ergonomic unit combines features such as Fast Scan, Alarm (audible/visual) and Data Logging capabilities together with the Multi-Mode feature; used for reading through and eliminating the thickness of paint or coatings on various materials. All of these features are available to the operator at the touch of button.

Conveniently toggle between pulse-echo mode, to detect flaws and pits, and echo-echo mode, which eliminates paint and coating thickness. There is no longer any

need to remove or allow for errors due to paint and coatings.

The T-Gage IV MM uses a highly damped dual element style transducer for both modes, eliminating the need to switch between transducer types.

Sonatest Gauges are constructed in an all aluminium sealed case, making them rugged and resistant to the harshest of working environments.

5 year limited warranty.

## VERSATILITY

*Covering all  
your  
inspection  
requirements*

## CONVENIENCE



# APPLICATIONS



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



# SPECIFICATIONS

## PHYSICAL

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

**Size:** 63.5w x 114.3h x 31.5d mm  
(2.5" x 4.5" x 1.2" inches)

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

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

## KEYPAD

Sealed membrane resistant to  
both water and petroleum  
products.

Nine tactile-feedback keys.

## TRANSDUCERS

Dual element (transmit &  
receive).

1 - 10 MHz frequency range.

Special high damped transduc-  
ers available for Through Paint  
& Coating measurements.

Locking quick disconnect  
LEMO connectors.

1.2m cable.

Custom transducers available  
for special applications.

## MEASURING

**Pulse-Echo Mode** (Pit & Flaw)  
Measures from 0.63 to 500mm  
(0.025 to 19.999 inches)

**Echo-Echo Mode** (Through  
Paint & Coatings) measures  
2.54 to 25.4 mm (0.1 to 1.0  
inch).

Selectable imperial or 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.

## FEATURES

**Multi-Mode:** Toggle between  
Pulse-Echo mode and Echo-  
Echo mode with the single press  
of a button.

**Alarm Mode:** Enter a minimum  
acceptable thickness, if results  
fall below this minimum a red  
LED will illuminate and sound a  
beeper. Whist above the mini-  
mum a green LED will show.

**Data Output:** RS 2323 output  
sends data to a printer, computer  
or other external storage device.

## 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 automati-  
cally when battery is too low  
to operate reliably.

## CERTIFICATION

Factory calibration traceable  
to national standards.

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