



T-Gage IV Series

The T-Gage IV Series is packaged in an all metal case, sealed with gaskets, which makes this gauge the perfect choice for use in the harshest of environments.

T-Gage IV

The T-Gage IV is a basic model in the Sonatest Thickness Gauge range which has the ability to be calibrated to a variety of different materials, using one or two point calibration and High Speed Scan Mode,

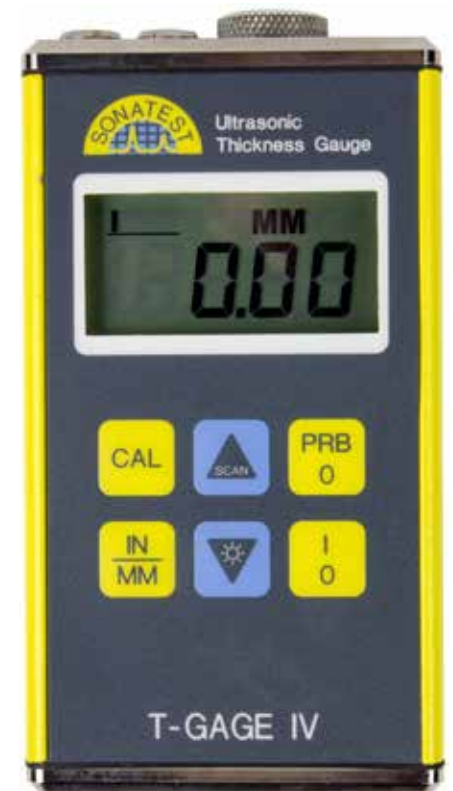
T-Gage IV+/DL

The T-Gage IV+ offers features such as, Alarm Mode, Differential Mode, High Speed Scanning and RS232 output and Data Send. The T-Gage IV DL includes all the features and specifications of the IV+ as well as Internal Data Logger (DL). These ultrasonic thickness gauges have the ability to be calibrated to a variety of different materials using one or two point calibration.

T-Gage IV MM/DL

The T-Gage IV MM is a rugged ergonomic unit which combines features such as Fast Scan, Alarm (audio/visual) capabilities together with the Multi-Mode feature used for reading through and eliminating the thickness of paint or coatings on various materials. The T-Gage IV MMDL includes all the features and specifications of the T-Gage IV MM as well as Internal Data Logger (DL). All of these features are available to the operator at the touch of a button.

Conveniently toggle between pulse-echo mode, to detect flaws and pits and echo-echo mode, which eliminate 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 transducer for both modes, eliminating the need to switch between transducer types.



Applications

- Corrosion & Pitting
- Tube & Pipe
- Tanks & Boilers
- Glass
- Plastics – polypropylene etc (T-Gage IV+/DL Only)
- And a variety of other applications.

Simplicity | Capability | Reliability

Specifications

PHYSICAL

Weight: 10 ounces (with batteries).

Size: 2.5 W x 4.5 H x 1.24 D inches 63.5 W x 114.3 H x 31.5 D mm.

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

Case: Extruded aluminium body with nickel plated aluminium end caps.

Keypad: Sealed membrane that is resistant to both water and petroleum products.

Six or Nine tactile-feedback keys (**T-Gage IV and T-Gage+ / DL Only**).
Nine tactile-feedback keys (**T-Gage IV MM Only**).

Transducer: Dual-element (transmit and receive) 1 to 10 MHz frequency range. Special high damped transducers available for Through-Paint and Coating measurements (**T-Gage IV MM Only**).
Locking quick disconnect LEMO connectors 1.2 meter / 4 foot cable.
Custom transducers available for special applications.

Power Source: Two 1.5V alkaline or 1.2V NiCad AA cells. Typically operates for 60 hours on alkaline and 15 hours on NiCad (**T-Gage IV MM Only**).

T-Gage IV, IV+ and DL operate for 80 hours on alkaline and 20 hours on NiCad. Display flashes when battery is low. Unit turns off automatically when battery is too low to operate reliably.

Display: Multi-function 4.5 digit liquid crystal display with 0.500 inch numerals. Backlight for use in poor lighting conditions. Backlight is selectable on/off/auto (illuminates only when taking a measurement. Measurements displayed in inches, inches/microsecond, millimeters and meters/second. Bar graph indicates stability of reading.

Standard T-Gage IV Series kit includes: Dual element transducer, Operators Manual, Couplant, 2 x AA Batteries and a Carry Case.

Certification: Factory calibration traceable to NIST and MIL-STD 45662A.

Warranty: 5 Year Limited.

Feature	Specification	T-Gage IV	T-Gage IV+/DL	T-Gage IV MM/DL
Alarm Mode:	Enter a minimum acceptable thickness value. If the measurement falls below the minimum, a red LED will illuminate and an alert beeper will sound. If measurement is above minimum value a green LED will illuminate		●	●
Differential Mode:	Enter the acceptable thickness value, unit will display +/- the difference from the value entered		●	
Multi Mode	Toggle between Pit and Flaw Detection (Pulse Echo Mode) and Through Paint and Coatings (Echo-Echo Mode) with the single press of a button.			●
Data Output	RS232 serial interface. PC software and USB converter cable included		●	●
MEASURING				
Range:	Measures from 0.025 to 19.999 inches (0.63 to 500 mm). Range dependent on material and transducer type		●	●
Units:	English and Metric	●	●	●
Resolution:	0.001 inches (0.01 mm)	●	●	●
Velocity Range:	0.0492 to .5511 inches/μs. (1250 to 14,000 m/sec) four readings per second in Scan Mode - captures the minimum thickness	●	●	
	0.0492 to .3937 inches/μs. (1250 to 10,000 meters/second	●		●
Pulse-Echo Mode (Pit and Flaw Detection):	Measures from 0.025 to 19.999 inches (0.63 to 500 mm)	●	●	●
Echo-Echo Mode (Through Paint and Coatings):	Measures from 0.1 to 1.0 Inches (2.54 to 25.4 mm)	●	●	●
Extended Range (ER) (increases Echo-Echo Range):	Measures from 0.125 to 4.0 inches (3 to 100 mm)			●
Built in:	Stainless steel reference disk for probe zeroing	●	●	●
Speed:	Standard - 4 per second. Scan - 16 per second (min. capture) single and two point calibration option included			●

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