PRECISION QUALITY CONTROL INSTRUMENTS SINCE 1958



TI-25MXT Thru-Paint Ultrasonic Wall Thickness Gauge

Measures wall thickness & extent of corrosion — from only one side

The CHECK-LINE TI-25MXT Wall Thickness Gauge accurately measures wall thickness and extent of corrosion of all metals, ceramics, glass and most rigid plastics—from only one side! When operated in E-E Mode (Thru-Paint Mode), the coating is eliminated from the reading. The gauge displays only the thickness of the metal wall.

TI-25MXT Features include Automatic or Manual Probe Zero maximizing accuracy,

5-position Gain Adjustment to help locate the correct backwall echo and to penetrate the walls on sound-attenuating materials such as cast metals and thick materials.

It also features Differential mode, Hi-Low Alarms with audible and visual indicators and Scan mode that captures the minimum thickness at 100 measurements per second (100 Hz). It also includes a special Velocity Mode to measure in terms of velocity for nodularity testing.

The calibration and other setup parameters can be locked to prevent any accidental adjustments.



5-year warranty, CE-certified, Made in USA, includes NISTtraceable calibration certificate





Features

Total Measuring Range

Pulse-Echo (PE) Mode (Pit & Flaw Detection) 0.025 to 36.000 inches (0.63 to 914.4mm)

Echo-Echo (EE) Mode* (Thru Paint & Coatings) 0.100 to 1.000 inch (2.54 to 25.40mm)

Measuring Range on Steel

Pulse-Echo (PE) Mode (Pit & Flaw Detection) 0.040 to 8.00 inches (1.00 to 199.9mm)

Echo-Echo (EE) Mode (Thru Paint & Coatings) 0.100 to 1.000 inch (2.54 to 25.40mm)

- Standard probe: The gauge reads thru a 0.040" (1mm) thick coating Optional probe: The gauge reads thru a 0.075" (1.9mm) thick coating
- Resolution of 0.001 inch (0.01 mm)
- Switch-selected units (inches or mm)
- 2-point calibration optimizes linearity over a wide measurement range
- Scan mode (100 readings/sec.) displays minimum thickness during the "scan"
- 5-step GAIN adjustment for optimal accuracy in challenging applications
- The extruded aluminum housing is impact-resistant and environmentally sealed (IP 65)
- LCD Display shows thickness value, velocity setting, gain setting, stability & battery indicators, scan mode, zero and units
- Two (2) AA Batteries provide45 hours of continuous operation
- Selectable Backlight ON/OFF/AUTO
 - * Acutal range depends upon probe selected. Six (6) probes are available





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Specifications

Range in Steel Pulse-Echo Mode (Pit & Flaw Detection) measures

from 0.025 to 19.999" (0.63 to 500mm)

Echo-Echo Mode (Through Paint & Coatings) measures from 0.100 to 1.000" (2.54 to 25.40 mm) range depends upon probe selected)—six probes available

Resolution 0.001" (0.01mm)

Velocity Range 0.0120 to .7300 in/µs. 305 to 18,542 meters/sec

1/4", 5 MHz Hi-Damp Dual Element Transducer, Probe (Standard) actual wearface is 5/8" (17mm), p/n T-102-2700

Probes (optional) 1 to 10 MHz, 3/16" up to 1 inch (custom probes available)

Probe Wearface PEEK (Polyethylethylkytone)

Cable 4 ft.(1.2m) waterproof cable with non-polarized,

quick-disconnect connectors

LCD Display Multi-function 7 segment 4.5 digit liquid crystal

display with 0.500" digit height. Two 0.125 in14 segment fields for labels and values, and one 7 segment field for labels and values. Additional icons

to indicate features and modes

Display Backlight Backlight is selectable on/off/auto, and selectable

brightness (Lo, Med, Hi) options

Display Update

10 Hz (10 updates/sec) Rate

Temp. Limits Ambient: -22 to 167° F (-30 to 75° C)

> Material: 0 to 200° F (-20 to 100° C) High temperature probes available

Battery Type 2x AA batteries (rechargeable batteries can be used)

Battery Life 45 hours continuous use

Weight 11 oz. (308g)

2.5" x 5.17" x 1.25" (63.5 x 131.3 x 31.5mm) **Dimensions**

Probe/cable assembly, 4 oz. bottle of coupling Accessories fluid, NIST Calibration Certificate, 2 AA batteries,

operating instructions, hard-plastic carrying case.

Housing Extruded aluminum body with nickel-plated aluminum

end caps (gasket sealed)

Housing Rating

Certifications NIST Traceable and MIL-STD-45662A

Sealed membrane resists to water and petroleum Keypad

products. Seven or eight tactile-feedback keys

Pulse Repetition 200 Hz (200 pulses/sec)

Frequency (PRF)

Gain (TDG)

GAIN Adjustment Adjustable GAIN 5-position (VLOW, LOW, MED,

HIGH, VHI), in 3dB steps, 40-52dB

Time Dependent Used inpulse-echo (P-E) and Echo-Echo (E-E) modes

depending on transducer and frequency selected

Measuring Mode Pulse-Echo (P-E), Echo-Echo (E-E, Thru-Paint Mode).

Scan, Differential, Alarm and VX-velocity

Pulser 150 volt square wave pulser

Warranty Gauge: 5 Years

Probes: 90 Days



Measuring Limits

	Minimum Radius for Convex Surfaces	0.350" (8.89mm)
	Minimum Radius for Concave Surfaces	3" (76.2mm)
	Minimum	1"
	Headroom	(25.0mm)
	Minimum Sample Diameter	0.150"
		(3.8mm)
	Minimum Substrate Thickness - F	na
	Minimum Substrate Thickness - NFe	na
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Related Products

SB-Series Certified Steel Test Blocks	 Precision Machined and Finished Includes Wooden Storage Box Includes NIST Traceable Calibration Certificate
TICC-M Protective Holder for Ultrasonic Gauges	Constructed from heavy-duty Cordura Nylon Built-in belt loop
V-Block Ultrasonic Transducer Holder	For 3/16" & 1/4" Transducers only
SB Step Block Steel Test Blocks without certification	Fabricated from 1018 Steel Supplied without certification
CF-12 Coupling Fluid	• Temp Range: 0 - 200 °F, -18 - 93 °C
A-302-6002 Protective Rubber Boot for TI / ZX Series Small Body Ultrasonic Thickness Gauges	Built-in StandHand and shoulder straps

