



CHECKLINE®
MADE TO MEASURE

PRECISION QUALITY CONTROL INSTRUMENTS SINCE 1958

TI-25DLXT

Thru-Paint Ultrasonic Wall Thickness Gauge with Data Logging & USB Output

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)

- Built-in datalogging for 10,000 data values stored in up to 40 batches (250 values/batch) with USB output.
- Transfer data to any program in .csv format or view in Datacomm software (free download)
- The gauge reads thru a 0.040" (1mm) coating (standard probe) or 0.075" (1.9mm) coating (optional) probe
- 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
- Impact-resistant, aluminum housing is environmentally sealed (IP 65)
- LCD shows thickness value, velocity setting, gain setting, stability and battery indicators, scan mode, zero, units and stored data
- Two AA batteries provide 45 hours of continuous operation

* Actual range depends upon probe selected.
Six (6) probes are available

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

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

Incorporates built-in datalogging for 10,000 values with 250 readings per batch, up to 40 separate batches with USB Output. Data can be transferred into any program in .csv format or viewed in Datacomm Software (free download)

TI-25DLXT 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 NIST- traceable calibration certificate

Complete Kiti includes:

TI-25DLXT gauge, probe, 4 oz. bottle of coupling fluid, 2 AA batteries, USB output cable, NIST-traceable calibration certificate and operating instruction manual—in a foam-fitted carrying case.



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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	Weight	11 oz. (308g)
Resolution	0.001" (0.01mm)	Dimensions	2.5" x 5.17" x 1.25" (63.5 x 131.3 x 31.5mm)
Velocity Range	0.0120 to .7300 in/μs. 305 to 18,542 meters/sec	Accessories	Probe/cable assembly, 4 oz. bottle of coupling fluid, NIST Calibration Certificate, 2 AA batteries, operating instructions, hard-plastic carrying case.
Probe (Standard)	1/4", 5 MHz Hi-Damp Dual Element Transducer, actual wearface is 5/8" (17mm), p/n T-102-2700	Housing	Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed)
Probes (optional)	1 to 10 MHz, 3/16" up to 1 inch (custom probes available)	Housing Rating	IP65
Probe Wearface	PEEK (Polyethylethylkytone)	Certifications	NIST Traceable and MIL-STD-45662A
Cable	4 ft.(1.2m) waterproof cable with non-polarized, quick-disconnect connectors	Keypad	Sealed membrane resists to water and petroleum products. Seven or eight tactile-feedback keys
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	Pulse Repetition Frequency (PRF)	200 Hz (200 pulses/sec)
Display Backlight	Backlight is selectable on/off/auto, and selectable brightness (Lo, Med, Hi) options	GAIN Adjustment	Adjustable GAIN 5-position (VLOW, LOW, MED, HIGH, VHI), in 3dB steps, 40-52dB
Display Update Rate	10 Hz (10 updates/sec)	Time Dependent Gain (TDG)	Used in pulse-echo (P-E) and Echo-Echo (E-E) modes depending on transducer and frequency selected
Temp. Limits	Ambient: -22 to 167° F (-30 to 75° C) Material: 0 to 200° F (-20 to 100° C) High temperature probes available	Measuring Mode	Pulse-Echo (P-E), Echo-Echo (E-E, Thru-Paint Mode), Scan, Differential, Alarm and VX-velocity
Battery Type	2x AA batteries (rechargeable batteries can be used)	Output Type	USB-C (plug-n-play, view files on PC which can be dragged and dropped)
Battery Life	45 hours continuous use	Built-in Memory	10,000 data values stored in up to 40 batches with 250 values/batch
		Memory Type	Sequential data file (single column)
		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 Headroom	1" (25.0mm)
	Minimum Sample Diameter	0.150" (3.8mm)
	Minimum Substrate Thickness - F	na
	Minimum Substrate Thickness - NFe	na

Related Products

SB-Series Certified Steel Test Blocks	<ul style="list-style-type: none"> Precision Machined and Finished Includes Wooden Storage Box Includes NIST Traceable Calibration Certificate
TICC-M Protective Holder for Ultrasonic Gauges	<ul style="list-style-type: none"> Constructed from heavy-duty Cordura Nylon Built-in belt loop
V-Block Ultrasonic Transducer Holder	<ul style="list-style-type: none"> For 3/16" & 1/4" Transducers only
SB Step Block Steel Test Blocks without certification	<ul style="list-style-type: none"> Fabricated from 1018 Steel Supplied without certification
CF-12 Coupling Fluid	<ul style="list-style-type: none"> Temp Range: 0 - 200 °F, -18 - 93 °C
A-302-6002 Protective Rubber Boot for T1 / ZX Series Small Body Ultrasonic Thickness Gauges	<ul style="list-style-type: none"> Built-in Stand Hand and shoulder straps