



CHECKLINE®
MADE TO MEASURE

PRECISION QUALITY CONTROL INSTRUMENTS SINCE 1958

TI-25SX

Ultrasonic Wall Thickness Gauge

Features

Total Measuring Range *

0.025 - 36.000 in / 0.63 - 914.4mm

Measuring Range on Steel **

0.025 - 6.00 in / 0.60 - 150.0mm

- Resolution of 0.001 in (0.01mm)
- The transducer (probe) is waterproof and submersible in shallow water
- Special-purpose probes offered for a variety of applications (1 to 10 MHz)
- Switch-selected units (inches or mm)
- The extruded aluminum housing is impact-resistant and environmentally sealed (IP 65) for trouble-free operation under tough field conditions
- For underwater surveying, a 50 ft (15 m) underwater probe/cable is available as an option
- High visibility LCD display is readable in all lighting conditions and temps as low as 22 °F (-30 °C)
- LCD shows thickness value, velocity setting, stability indicator, battery indicator and units
- Acoustic Velocity (calibration) is manually adjusted via the keypad
- 5 Year Warranty, CE-Certified and Made in USA
- Two (2) AA batteries provide 45 hours continuous operation
- Selectable Backlight ON/OFF/AUTO
- Includes NIST Traceable Calibration Certificate

* Depends on material and transducer/probe type

** With standard T-102-2000 probe

The TI-25SX allows the operator to select from 8 preset materials as well as program two custom material velocities allowing the user to tune the calibration to be optimized for a specific type of material. The calibration can be locked to prevent any accidental adjustments. The preset materials are as follows:

1. Steel 4340
2. Stainless 303
3. Aluminum 2024
4. Cast Iron
5. Plexiglass
6. PVC
7. Polystyrene
8. Polyurethane
9. Custom
10. Custom



Complete Kit: The TI-25SX is supplied with the gauge, probe, 4 oz. bottle of coupling fluid, two AA batteries, NIST-traceable calibration certificate, and operating Instruction manual—all in a foam-fitted carrying case.



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Specifications

Total Measuring Range (Steel)	0.025 – 36.000" (0.63 – 914.4mm) depends on material and transducer/probe type	Temp. Limits	<i>Ambient:</i> –22 to 167 °F (–30 to 75 °C) <i>Material:</i> 0 to 200 °F (–20 to 100 °C) High temperature probes available
Measuring Range (Steel)	0.040-6.000" (1.00 –150.0mm) with standard transducer T-102-2000	Battery Type	2x AA batteries (rechargeable batteries can be used)
Resolution	0.001" (0.01mm)	Battery Life	45 hours continuous use
Measuring Mode	Pulse-Echo (P-E)	Housing	Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed)
Velocity Range	0.0120 to .7300 in/μs. 305 to 18,542 meters/sec	Housing Rating	IP65
Probe (Standard)	1/4", 5 MHz Dual Element Transducer, actual wearface is 5/8" (17mm), p/n T-102-2000	Keypad	Sealed membrane that is resistant to both water and petroleum products Seven or eight tactile-feedback keys
Cable	4 ft. (1.2 m) waterproof cable with non-polarized, quick-disconnect connectors	Weight	11 oz. (308 grams)
Probes (optional)	1 to 10 MHz, 3/16" up to 1 inch (custom probes available)	Pulse Repetition Frequency (PRF)	200 Hz (200 pulses/sec)
Probe Wearface	PEEK (Polyethylene glycol terephthalate)	Dimensions	2.5" x 5.17" x 1.25" (63.5 x 131.3 x 31.5mm)
LCD Display	Multi-function 7 segment 4.5 digit liquid crystal display with 0.500" digit height. Two 0.125 in 14 segment fields for labels and values, and one 7 segment field for labels and values. Additional icons to indicate features and modes	Accessories	Probe/cable assembly, 4 oz. bottle of coupling fluid, NIST Calibration Certificate, 2 AA batteries, operating instructions, hard-plastic carrying case.
Display Backlight	Backlight is selectable on/off/auto, and selectable brightness (Lo, Med, Hi)	Certifications	NIST Traceable and MIL-STD-45662A
Display Update Rate	10 Hz (10 updates/sec)	Warranty	<i>Gauge:</i> 5 Years <i>Probes:</i> 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
TI-25-UW-50 50 Ft. Underwater Probe / Cable Assembly	<ul style="list-style-type: none"> 50 Ft. Length, Waterproof Probe/Cable assembly with non-polarized, Dual-Lemo connectors.