



PRECISION QUALITY CONTROL INSTRUMENTS SINCE 1958

CHECKLINE
MADE TO MEASURE

Range with Delay Line Transducer
0.0060" -1.000" (0.150 - 25.40mm)

Range with Contact Transducers
up to 36.00" (923.0mm)

Features

- Includes NIST Traceable Calibration Certificate
- Resolution of 0.0001" (0.001mm)
- Selectable units, inch or mm
- USB Data Output, includes cable
 - TI-007X (single value only)
 - TI-007DLX (internal memory)
- Optional serial RS-232 or Bluetooth output
- Two (2) AA Batteries provide 45 hours of continuous operation
- Measure Modes: Pulse-Echo (P-E), Echo-Echo (E-E), Interface Echo (I-E), Plastics (PLAS), Differential, Alarm, Scan and Velocity (VX)
- LCD shows thickness value, velocity, gain, stability & battery indicators, scan mode, zero and units
- Scan mode, 100 readings/sec. The minimum thickness will be displayed
- Automatic Time Dependent Gain (TDG) with manual adjustment, for use on challenging materials or applications
- Can be used with both Single Element Delay Line and contact transducers (5 to 20MHz)
- 5 Year Warranty, CE-Certified and Made in USA

TI-007X & TI-007DLX

Ultrasonic Wall Thickness Gauges with Delay Line Transducer

Designed for high-resolution measurements on thin-wall metal and plastics.

TI-007X Series of ultrasonic wall thickness gauges provide high-resolution measurements on thin-wall metal and plastics. Their IP65 rated, extruded aluminum housing is sealed for excellent environmental protection, assuring trouble-free use in the toughest field and production environments.

Using a single element delay tip transducer, the TI-007X Series gauges will measure thin materials and automatically remove any coatings in Echo-Echo Mode (E-E) as well as automatically switch to Interface Echo Mode (I-E) when measuring thicker materials. For measuring plastics, the user would select Plastic Mode (PLAS) and use the optional Graphite Delay Line Tip.

The TI-007X Series can be used with single element contact transducers for wall thickness measurements up to 36"(923 mm).

TI-007DLX gauge includes built-in data-logging for 10,000 data values stored in up to 40 batches with 250 values/batch with USB Output.

The complete kit includes:

TI-007X Series gauge, probe, 4 oz. bottle of coupling fluid, 2 AA batteries, USB-C data output cable, NIST-traceable calibration certificate and instruction manual—all in a foam-fitted carrying case.



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Specifications

Standard Range	0.0060" to 1.000" (0.150 to 25.40mm) — with delay line transducer measuring steel actual range with vary with material type and transducer
Overall Range	up to 36.00" (923.0mm) - with single element contact transducers actual range with vary with material type and transducer
Resolution	0.0001" (0.001mm) / 0.001" (0.0 mm), User-selected units and resolution
Display	Multi-function 7 segment 4.5 digit liquid crystal display with Back-light. Bar graph indicates stability of reading
Velocity Range	0.0120 to .7300 in/μs (305 to 18,542 m/sec)
Probe (Standard)	1/4" diameter, 15 MHz delay line transducer with cable (p/n T-402-5507)
Probe (Optional)	Various Single Element Delay Line and Contact Transducers (5 to 20MHz)
Cable	4 ft. (1.2 m) with Microdot/Lemo00 connector
Measuring Modes	Pulse-Echo (P-E), Echo-Echo (E-E), Interface Echo (I-E), Plastics (PLAS), Differential, Alarm, Scan and Velocity (VX)
Gain	Automatic time dependent gain (TDG) with manual override
Output	T1-007X: USB single value only (no internal memory) T1-007DLX: USB built-in datalogging for 10,000 data values stored in up to 40 batches with 250 values/batch
Output (Optional)	RS-232 and Bluetooth (optional)
Display Update	10 Hz (10 updates/sec)
Housing	Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed)— IP65
Operating Temp	-22 to 167°F (-30 to 75°C)
Battery Type	2x AA 1.5V alkaline, 1.2V NiCad, or 1.5V lithium AA cells (rechargeable batteries can be used)
Battery Life	Typically operates for 35 hours on alkaline and 18 hours on NiCad (continuous use)
Weight	11 ounces (308 grams)
Dimensions	2.5 x 5.17 x 1.25" (64 x 131 x 32mm)
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

Accessories

A-302-6002 Protective Rubber Boot <ul style="list-style-type: none"> Built-in Stand Hand and Shoulder Straps 	
CF-12 Coupling Fluid <ul style="list-style-type: none"> Temp Range: 0 to 200 °F (-18 to 93 °C) 	
SB Step Block Steel Test Blocks without certification <ul style="list-style-type: none"> Fabricated from 1018 Steel Supplied without certification 	
SB-Series Certified Step Blocks <ul style="list-style-type: none"> Precision machined & finished Includes wooded storage box Includes NIST traceable Calibration Certificate 	