

Precision

WALL THICKNESS GAUGE

TI-007 Series

Measuring Range

0.0060 – 1.000 inches

0.15 – 25.4 mm

The new CHECK·LINE® TI-007 Series accurately measures wall thickness and extent of corrosion on all metals, ceramics, glass and most rigid plastics—from *only one side!*

The gauge can be used in a *Single Thickness Reading* mode and three alternative modes—scan, differential and alarm. The *Scan* mode permits the user to drag the probe over a large measuring areas where the minimum thickness encountered during the scan is displayed. The *Differential* mode displays the difference (“+”) or (“-”) from a user set nominal value. The *Alarm* mode provides a visual and audible alert if the thickness measured is above or below a user set range.

Datalogging Model: The TI-007DL has an RS232 serial port for connection to a computer or external storage device. Windows compatible data transfer software is supplied at no additional charge.

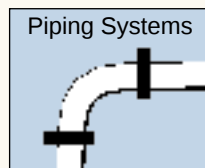
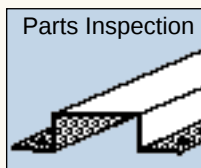
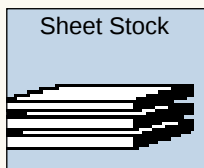
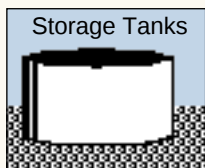
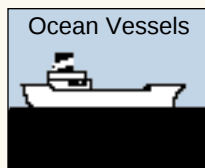
TI-007 gauges are impact resistant and environmentally sealed to provide trouble-free operation under the toughest field conditions.



FEATURES

- Resolution of 0.0001 inch (0.001 mm)
- Large, backlit LCD display retains last reading
- Switch-selected units for *inches* or *mm*
- Memory for 1000 data points in up to 10 batches (TI-007DL only)
- RS-232C Serial output for downloading stored data to a printer or computer (TI-007DL only)
- Special-purpose probes are offered for a variety of applications
- Windows compatible data transfer program supplied at no additional cost (TI-007DL only)

Typical Applications



Specifications

Range*	0.0060-1.0000" (0.15–25.40 mm) Other ranges available with optional probes.
Resolution	.0001" (0.001 mm)
Display	4 ½ -Digit, 0.5" Backlit LCD
Velocity Range	6,500-33,000 ft./sec (1250-10000 m/sec.)
Probe	¼", 15 MHz, actual wearface is ⅜" (9.5mm)
Probe Wearface	PEEK (Polyethylethylkeytone)
Cable	4 ft. (1.2 m) waterproof cable with non-polarized, quick-disconnect connectors. Optional lengths up to 50 ft. (15 meters)

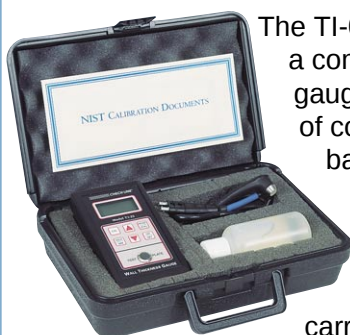
Test Block	0.250" (6.35 mm) steel plate built into the front of housing.
Serial Output	RS-232C (8, N, 1, user-set baud rate)
Temp. Limits	<u>Ambient:</u> -20 to 120 °F (-30 to 50 °C) <u>Material:</u> 0 to 200 °F (-20 to 100 °C) Special high temperature probes are optionally available.
Battery Type	Two AA batteries
Battery Life	150 hours
Weight	10 ounces (280 g)
Size	2.5 x 4.51 x 1.24" (63.5 x 114.3 x 31.5 mm)
Warranty	<u>Gauge:</u> 5 years <u>Probe:</u> 90 days



*Measuring Range indicated is for steel. Actual range for other materials will vary based upon the material's sonic velocity and attenuation.

Specifications subject to change without notice.

TI-007 Complete Kit



The TI-007 is supplied as a complete kit with the gauge, probe, 4 oz. bottle of coupling fluid, 2 AA batteries, NIST Calibration Certificate and Operating Instruction Manual — all in a foam-filled carrying case. DL version includes software and connection cable.

Measuring Limits

Application	Limits	Dimensions
	Minimum radius for convex surfaces	0.350" (8.9mm)
	Minimum radius for concave surfaces	6" (150mm)†
	Minimum headroom	1" (25mm)
	Minimum sample diameter	0.150" (3.8mm)

† Probe surface can be rounded to allow it to lie flat in small pipes to 1"