

# Thru-Paint WALL THICKNESS GAUGE

## MMX Series

### Measuring Ranges

*Pulse-Echo Mode:*

0.040" – 6.000" (1.00–152.4mm)

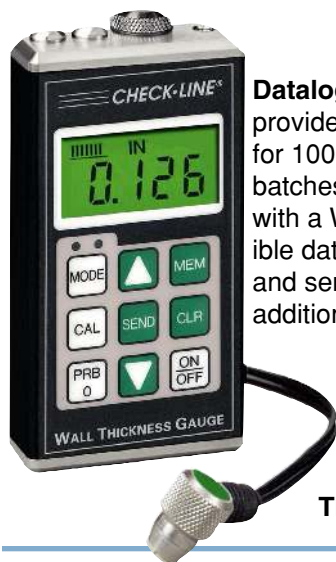
*Echo-Echo Mode:*

0.100" – 5.000" (2.54–127.0mm)

Using the *pulse-echo* measuring principle, Check-Line Ultrasonic Thickness Gauges accurately measure wall thickness and extent of corrosion on most metals, ceramics, glass and plastics.

The new *MMX Series* gauges offer the user a second powerful measurement mode, *echo-echo*, which automatically eliminates any paint or coating from the thickness measurement.

Switching between pulse-echo and echo-echo modes is as simple as pressing the Dual-Multi key. Additionally, all models provide Single Thickness Reading Mode and a *Scan Mode*, where the probe is dragged over a large measuring area. The minimum thickness reading recorded during the "scan" is displayed. Alarm limits with "Go" and "No-Go" visual and audible indicators are also included.



**Datalogging models** provide built-in memory for 1000 data values in 10 batches and are supplied with a Windows compatible data transfer program and serial cable at no additional cost.

TI-25DL-MMX

*Advanced "Thru-Paint" measuring mode eliminates paint/coating thickness from the overall wall thickness measurement for added precision.*



TI-25M-MMX

### FEATURES

- Ability to measure through paint and eliminate coatings
- Resolution of 0.001 inch (0.01 mm)
- RS-232 output for connection to printer or PC
- Switch-selected units for inches or mm
- For underwater surveying, probe cable lengths up to 50 feet are optionally available
- The probe is waterproof and can be submerged in water.
- **Extended Range Capabilities:** Both the TI-25M-MMX and TI-25DL-MMX are available in Extended Range configurations See the Selection Guide for details.



Free NIST Calibration Certificate Included  
CE Certified

## Selection Guide – Pit & Flaw Detection (Pulse-Echo) Mode

Model Number	Maximum Coating	Minimum Wall	Maximum Wall	Datalogging
All Models	0.020" (0.51mm)	0.040" (1.00mm)	6.000" (152.4mm)	See Below

## Selection Guide – Thru-Paint (Echo-Echo) Mode

Model Number	Maximum Coating	Minimum Wall	Maximum Wall	Datalogging
TI-25M-MMX	0.040" (1.00mm)	0.100" (2.54mm)	1.000" (25.4mm)	No
TI-25M-MMX-EXT	0.080" (2.00mm)	0.200" (5.08mm)	5.000" (127.0mm)	No
TI-25DL-MMX	0.040" (1.00mm)	0.100" (2.54mm)	1.000" (25.4mm)	Yes
TI-25M-MMX-EXT	0.080" (2.00mm)	0.200" (5.08mm)	5.000" (127.0mm)	Yes

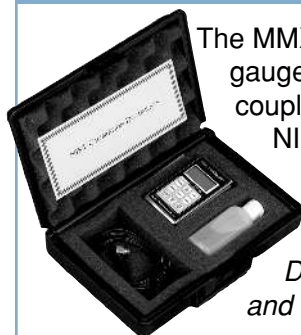
## Specifications

<b>Resolution</b>	.001" (0.01 mm)	<b>Memory</b>	1000 values (DL models only)
<b>Display</b>	4 1/2-Digit, 0.5" Backlit LCD	<b>Temp. Limits</b>	<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.
<b>Velocity Range</b>	6,500–33,000 ft/sec (1,250-10,000 m/sec.)	<b>Battery Type</b>	Two AA batteries
<b>Probe</b>		<b>Battery Life</b>	200 hours
<i>Standard</i>	5 MHz, 0.25" diameter (6.35mm) High Damp	<b>Weight</b>	7 ounces (196 g)
<i>Extended Range</i>	3.5 MHz, 0.5" diameter (12.370mm) High Damp	<b>Size</b>	2.5 x 4.51 x 1.25" (65 x 114. x 35 mm)
<b>Probe Wearface</b>	PEEK (Polyethylethylkeytone)	<b>Warranty</b>	<u>Gauge:</u> 5 years <u>Probe:</u> 90 days
<b>Cable</b>	4 ft. (1.2 m) waterproof cable with non-polarized, quick-disconnect connectors. Optional lengths up to 100 ft. (50 meters)		
<b>Serial Output</b>	RS-232C (8, N, 1, user-set baud rate)		

\*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.

## MMX Series Complete Kit



The MMX Series is supplied with the gauge, probe, 4 oz. bottle of coupling fluid, 2 AA batteries, NIST Calibration Certificate and Operating Instruction Manual — 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" (12.7mm)
	Minimum radius for concave surfaces	6" (63.5mm)†
	† Probe surface can be rounded to allow it to lie flat in small pipes to 1"	
	Minimum headroom	1" (25.0mm)
	Minimum sample diameter	0.150" (3.8mm)

## CHECK·LINE® – PRECISION QUALITY CONTROL INSTRUMENTS

**Electromatic Equipment Co., Inc.**  
600 Oakland Ave.  
Cedarhurst, N Y 11516 —USA

**Tel:** (800) 645-4330 (USA & Canada)  
**Tel:** (516) 295-4300  
**Fax:** (516) 295-4399

**Email:** info@checkline.com  
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