**CHECK·LINE**®
*BY ELECTROMATIC*

# 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 a 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.
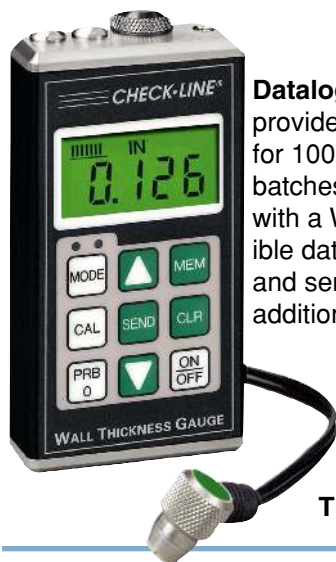


**Datalogging models** provide built-in memory for 1000 data values in 10 batches and are supplied with a Windows compatible data transfer program and serial cable at no additional cost.

**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.



FIVE-YEAR WARRANTY
**5**
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

| | | | |
|---|---|---|---|
| **Resolution** | .001" (0.01 mm) | **Memory** | 1000 values (DL models only) |
| **Display** | 4 1⁄2 - Digit, 0.5" Backlit LCD | **Temp. Limits** | <u>Ambient</u>: –20 to 120 °F (–30 to 50 °C) |
| **Velocity Range** | 6,500–33,000 ft/sec (1,250-10,000 m/sec.) | | <u>Material</u>: 0 to 200 °F (–20 to 100 °C) |
| **Probe** | | | Special high temperature probes are optionally available. |
| *Standard* | 5 MHz, 0.25" diameter (6.35mm) High Damp | **Battery Type** | Two AA batteries |
| *Extended Range* | 3.5 MHz, 0.5" diameter (12.370mm) High Damp | **Battery Life** | 200 hours |
| **Probe Wearface** | PEEK (Polyethylethylkeytone) | **Weight** | 7 ounces (196 g) |
| **Cable** | 4 ft. (1.2 m) waterproof cable with non-polarized, quick-disconnect connectors. Optional lengths up to 100 ft. (50 meters) | **Size** | 2.5 x 4.51 x 1.25"   (65 x 114. x 35 mm) |
| **Serial Output** | RS-232C (8, N, 1, user-set baud rate) | **Warranty** | <u>Gauge</u>: 5 years <br> <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.*

## MMX Series Complete Kit
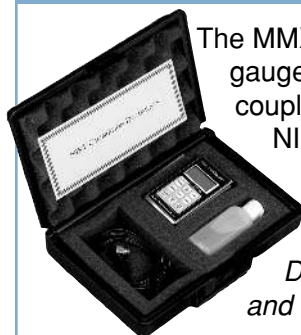


The MMX Series is supplied with the gauge, probe, 4 oz. bottle of coupling fluid, 2 AA batteries, NIST Calibration Certificate and Operating Instruction Manual — in a foam-filled carrying case.
*DL version includes software and connection cable.*

## 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

**FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER CALL TOLL FREE 1-800-645-4330**