**Data-Logging Wall & Coating Thickness Gauge**

Model TI-CMXDLP

The top-of-the-line model in the CMX Series of gauges measures both coating and wall thickness quickly and accurately—from only one side.

**The TI-CMXDLP automatically eliminates the coating from the wall thickness measurement (Pulse-Echo mode), enabling users to locate the finest corrosion and pitting—without removing the coating.**

It features an A-Scan Display Mode that graphically shows the wave form echoes, allowing gauge settings to be tuned for optimal performance—critical on challenging measurement tasks. The new E-EV Operating Mode (Echo-Echo-Verify), also known as Triple-Echo Mode, provides addition assurance that the displayed measurement is accurate and fully verified by subsequent echoes.

**The TI-CMXDLP-C features an oversized, backlit graphic color LCD with easy-to-read fonts, graphics and display codes showing all critical settings including velocity, operating mode, alarms, scan mode and more**

With ultra hi-speed processing (display update refresh of 120 times/second), TI-CMXDLP-C is also an extremely effective tool when used in the Flaw “Prove-up” Mode, simulating the function of a Flaw Detector at a fraction of the cost to identify and locate cracks, dis-bonds, weld defects, etc. It also includes a “dampening feature” which helps filter the raw waveform data to clean-up the signal, especially with very low and very high frequency probes.

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**Two versions are available**

**TI-CMXDLP**

*Black and white model*

**TI-CMXDLP-C**

*Color model*

- Dual and Single Element probes are available for nearly any application
- Bar graph with user-set start /end values providing highest resolution around the target thickness value
- 64 custom gauge setups can be stored for quick measurement of different materials
- Memory for over 200,000 measurements in Grid or Sequential format
- RS-232 output for transferring data to a Printer or PC
- Measures coatings up to 0.100”
- Hi/Lo Alarm Limits with audible and visual indicators
- Two Year Warranty
- CE Certified
- Supplied with NIST Traceable Calibration Certificate

Adjustable gain provides a 8 db gain adjust range (42–50 db)
TI-CMXDLP & TI-CMXDLP-C Specifications

PHYSICAL

Size: 2.5 in x 6.5 in x 1.24 in (63.5 x 165 x 31.5mm)

Weight: 13.5 oz (with batteries).

Keyboard: Membrane switch pad with 12 tactile keys.

Operating Temperature: 14 to 140°F (–10°C to 60°C)

Case: Extruded aluminum body with nickelplated aluminum end caps (gasket sealed).


Display (Two Options):
1/4 VGA AMOLED color display (320 x 240 pixels). 120 Hz screen refresh rate.

ULTRASONIC SPECIFICATIONS

Measurement Modes:
Coating Off: Pulse-Echo (P-E)
Coating On: Pulse-Echo Coating (PECT)
Temp Comp: Pulse-Echo Temperature Compensation (PETP)
Thru-Paint: Echo-Echo (E-E)
Thru-Paint Verify: Echo-Echo Verify (E-EV)
Coating Only: Coating (CT)

POWER SOURCE

Three 1.5V alkaline or 1.2V NiCad AA cells
Alkaline: grayscale 35 hrs, color 12 hrs.
NiCad: grayscale 10 hrs, color 5 hrs.

Power saving DIM feature for color display.
Auto power off if idle 5 minutes.

The TI-CMXDLP is supplied as a complete kit with the gauge, probe, 4 oz. bottle of coupling fluid, 2 AA batteries, NIST-Traceable Calibration Certificate, operating manual, RS-232 cable, RS232 to USB adapter & data transfer software—all in a foam-fitted carrying case.

DISPAN

Large Digits:
Standard thickness view.
Digit Height: 0.700 in (17.78mm).
Color 0.565 in (14.35mm).

A-Scan: Rectified +/- (flaw view), RF (full waveform view).
B-Scan: Time based cross section view.
Display speed: grayscale (15 secs per screen), color (variable speed).

Scan Bar Thickness: 6 readings per second. Viewable in B-Scan and Large Digit views.

Repeatability Bar Graph: Bar graph indicates stability of reading.

Feature Status Bar: Indicates features currently active.

MEMORY (CMX DL)

Log Formats:
Grid (alpha numeric)
Sequential (auto identifier)
Cell contents:
Graphics On: grayscale 16,000 & color 8,000 readings, A/B Scan image, & gauge settings for every reading.
Graphics Off: 210,000 readings (coating, material, min & max).
OBSTRUCT to indicate inaccessible locations.

CONNECTIONS

Output: RS232 serial interface, PC software & USB adapter cable.
Transducer Connectors: Two LEMO 00 connectors.

CERTIFICATION

Thickness Gauge: Factory calibration traceable to NIST & MIL-STD-45662A.
Warranty: 2 year limited

For additional information or to place an order CALL TOLL FREE 1-800-645-4330

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