

CT-Gage/DL/DL+

The CT Gage has been designed as a multi-purpose ultrasonic material and coating thickness instrument with a wide range of features. The CT-Gage is able to simultaneously and independently measure the material and the coating thickness, or switch to the time based B-Scan view to see a cross section view of the material you are inspecting.

There are 5 Measurement Modes:

- Pulse-Echo
- Pulse-Echo w/Coating
- Echo-Echo
- Pulse Echo w/Temperature Compensation
- Coating only mode

The CT-Gage incorporates:

- Single or two-point calibration option for material and coating, or select from basic material types.
- Automatic Probe Zero
- Automatic Probe Recognition
- Automatic Temperature Compensation
- Automatic Gain Control

A custom calibration configuration for both the material and coating types offers extreme linearity.

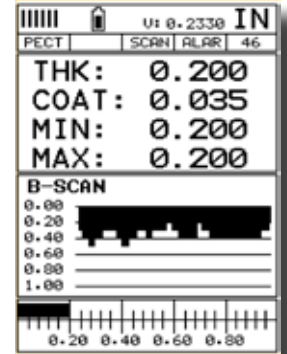
The **CT-Gage DL** includes all of the above features but is also equipped with a data logger. The data logger consists of two file formats: Sequential logging with auto identifiers and an alpha-numeric grid. The file formats are currently compatible with UltraPipe Asset Management Software.

The CT-Gage DL can store 16,000+ readings, with B-Scan captures, recording all the gauge's settings and features, or turn the graphics mode off and store over 210,000 readings!

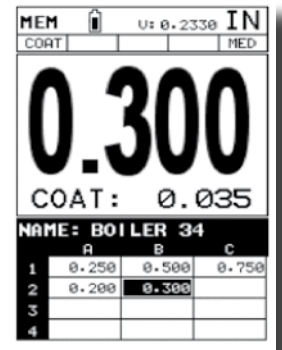
The **CT-Gage DL+** enables A-Scan measurements to be taken and stored. This model also includes Time Corrected Gain features.



A-Scan Display (DL+)



B-Scan Thickness & Coating Measurement.



Large Digit Display & Data Logging Grid

Time based B-Scan for cross section material scans

Stores up to 64 custom set ups for specific applications

Audible/visual alarms with hi & low limit settings

Display update rate of 25 times per second

PC software included

2 year warranty

Material & Coating Thickness Gauge

Power, Performance & Perfection.

CT Gage/DL/DL+

Specifications

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)

Coating Only: Coating (CT)

Pulser: Dual square wave pulsers.

Receiver: Dual receivers - manual or ACG gain control with 110dB range (limited).

Timing: Precision 25 MHz TCXO with single shot 100 MHz 8 bit ultra low power digitizer.

Measuring

Range:

Pulse-Echo Mode (P-E) - (Pit & Flaw Detection)

Measures from 0.63 - 508 mm (0.025 - 19.999 ins)

Pulse-Echo Coating Mode (PECT)-

(Material, Coating, Pit & Flaw Detection)

Material: 0.63 - 508 mm (0.025 - 19.999 ins)

Coating: 0.01 - 2.54 mm (0.001 - 0.100 ins)

Pulse-Echo Temp Comp Mode (PETP) -

(Pit & Flaw Detection)

Auto temperature compensation, measures:

0.63 - 508 mm (0.025 - 19.999 ins).

Echo-Echo Mode (E-E) - (Thru paint and coatings)

Measures from 2.54 - 102 mm (0.100 - 4.0 ins)

Coating Only Mode (CT) - (Coating Thickness)

Measures from 0.0127 - 2.54 mm (0.0005 - 0.100 ins)

Range will vary +/- depending on the coating.

Resolution: +/- 0.01 mm (0.001 inches)

Velocity Range: 1250 to 13995 metres/sec

0.0492 to 0.5510 ins/ms

Single or two point calibration option for material and coating, or selection of basic material types.

Units: English or Metric

Certification

Factory calibration traceable to national standards.

Physical

Size: 63.5mm(W) x 165mm(H) x 31.5mm(D)

2.5in(W) x 6.5in(H) x 1.24in(D)

Weight: 382.72 gms (13.5 ounces) with batteries

Keyboard: Membrane switch pad with twelve tactile keys.

Operating Temperature: -10°C to 60°C

Data Output: Bi-directional RS232 serial port.

Windows PC interface software.

Display: 1/8 in VGA grayscale display (240 x 160 pixels).

Viewable area 62 x 45.7 mm (2.4 x 1.8 ins)

EL backlit (on/off/auto)

Power Source

Three 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 150 hours on alkaline.

Auto power off if idle for 5 minutes.

Battery status icon.

Display

Large Digits: Standard thickness view. Digit height 17.78mm (0.700 ins)

B-Scan: Time based cross section view. Display speed of 15 secs per screen.

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

Repeatability Bar Graph: Indicates stability of reading.

Features Status Bar: Indicates features currently active.

Transducer

Transducer Types: General purpose 5MHz 1/4" (6mm), with integral 4 foot cable.

Other transducers (1MHz to 10MHz frequency range) and cables available for special applications.

Data Logger (CT-DL)

Log Formats: Grid (alpha-numeric), Sequential (auto-identifier)

Graphics On: 16,000 readings, B-Scan image & gauge settings for every reading.

Graphics Off: 210,000 readings (coating, material, min & max) OBSTRUCT to indicate inaccessible locations.

A-scan Model (CT-DL+)

A-scan: Rectified +/- (flaw view) / RF (full waveform view)

Time Corrected Gain (TCG): Multiple gates with adjustable thresholds allow compensation for amplitude delay with distance.

Warranty: 2 year limited.

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