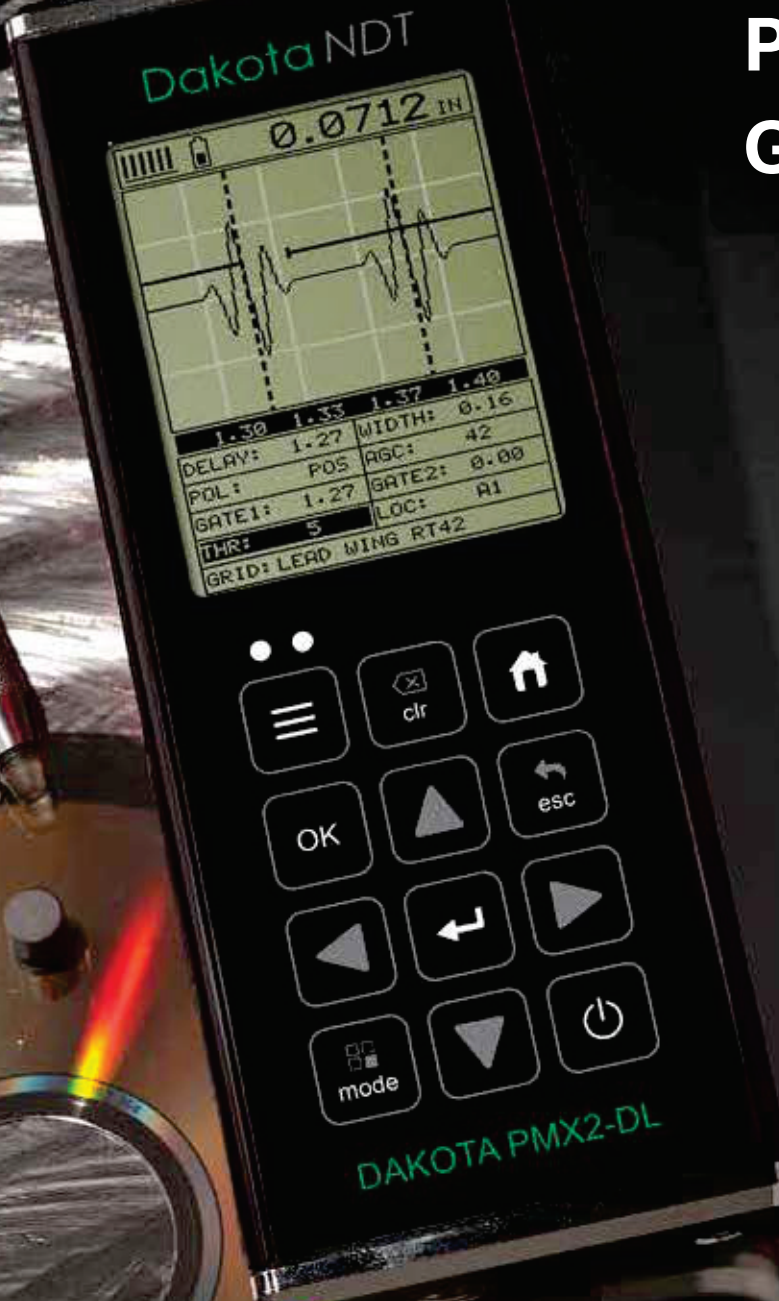


PMX2 - DL & PMX3 - DL

Precision Thickness Gauge



HIGHLIGHTS:

- Powered by a 100MHz DSP platform using FPGA technology
- Adjustable 200 volt pulser: 100, 150 & 200 volts
- Up to 250 Hz pulse repetition rate (PRF)
- Variable pulse width (spike, thin & wide)
- 110dB gain range. Manual and Automatic (AGC), depending on measure mode selected
- Time dependent gain (TDG), with variable start and slope
- Impedance damping options (35, 50, 75, 300, 600 & 1500)
- Display Options: Grayscale 1/8 VGA, or AMOLED color 1/4 VGA
- Screen refresh: B&W 25 Hz, color 60Hz
- Transducers: Single, Delay Line & Pencil options
- Memory: 4 GB internal SD card
- USB-C connectivity
- 2 year limited warranty

PMX2- DL Scan Precision Thickness Gauge



PMX2-DL is a high performance precision thickness gauge with 2 model options: Basic with a grayscale large **LCD** screen or the second option which provides an **AMOLED** Color screen.

The **PMX2-DL** gauges can be used with both single element transducers and pencil transducers for high precision inspection of difficult to reach areas.

SPECIFICATIONS

PHYSICAL

Size:

Width (2.5in/63.5mm)
Height (6.5 in/165mm)
Depth (1.24 in/31.5mm)

Weight:

13.5 ounces (with batteries).

Keyboard:

Membrane switch pad with twelve tactile keys.

Operating Temperature:

14 to 140F (-10C to 60C) Case:

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

Data Output: USB-C port. Windows[®] PC interface software.

Display (Two Options):

PMX2-DL: 1/8in VGA grayscale display (240 x 160 pixels); viewable area 2.4 x 1.8in (62 x 5.7mm); EL backlit (on/off/ auto invert).

PMX3-DL: 1/4 VGA AMOLED color display (320x240 pixels). Viewable area 1.7 x 2.27 in (43.2 x 57.6mm). 60Hz screen refresh rate.

ULTRASONIC SPECIFICATIONS

Measurement Modes:

Pulse-Echo (P-E): Contact transducers.

Echo-Echo (E-E): Contact transducers.

Echo-Echo Verify (E-EV): Contact transducers.

Interface-Echo (I-E): Delay Line & Pencil transducers.

Interface-Echo-Echo (I-E-E): Delay Line & Pencil transducers.

Pulser: Square wave pulser with adjustable pulse width (spike, thin, wide).

Receiver: Manual or AGC gain control with 110dB range, varies with mode selected. Adjustable damping (35, 50, 75, 300, 600 & 1500 ohms).

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

POWER SOURCE

Line Power: USB-C to PC or power outlet.

Batteries: Three AA cells.

Alkaline - b&w 35 hrs, color 12 hrs.

Nicad - b&w 10 hrs, color 5 hrs.

NI-MH - b&w 35hrs, color 12 hrs.

Power saving DIM (color), auto power off if idle 5 minutes. Battery status icon.

MEASURING

Range: Interface-Echo Mode: Steel .050–1.0 inch (1.27–25.4mm); Plastics from .005 inch (.127mm).

Interface-Echo-Echo Mode: Steel .006–.500 inch (.152–12.7mm).

Pulse-Echo Contact: Steel .040 in. – 30.0 ft. (1mm – 9.14 M).

Echo-Echo Contact: Steel .100–3.0 ft. (2.54–91.44cm).

Echo-Echo Verify Contact: Steel .100–6.0 in. (2.54–152.4mm).

Resolution (selectable):

+/- .001 inch (0.01mm).

+/- .0001 inch (0.001mm).

Velocity Range:

0.0122 to 0.7300 inches/ μ s

309.88 to 18542 meters/sec.

Single and Two point calibration option, or selection of basic material types.

Units: English & Metric

DISPLAY

Display Views:

A-Scan: Rectified +/- (flaw view) RF (full waveform view). Refresh rate at 25Hz (b&w), 60Hz (color). Portrait & Landscape views (color only).

B-Scan: Time based cross section view. Display speed variable (10 to 200 readings per second).

Large Digits: Standard thickness view;

Digit Height: 0.400in (10mm), color 0.565in (14.35mm).

Scan Bar: Speed 10 to 33Hz. Viewable in B-Scan and Large Digit views.

Bar Graph: Measurement stability.

MEMORY

Log Formats: Grid (Alpha Numeric), or Sequential (Auto Identifier).

Capacity: 4 Gb internal memory.

Screen Capture: Bitmap graphic capture for quick documentation (.tif).

OBSTRUCT to indicate inaccessible locations.

TRANSDUCER

Transducer Types:

Single Contact, Delay Line & Pencil (1 to 25MHz).

Locking quick disconnect LEMO "00" connector.

Standard 4 foot cable, custom transducers and cable lengths available.

FEATURES

Setups:

64 custom user-defined setups.

Gates: 3 adjustable gates, depending on measure mode selected.

Alarm Mode: Set Hi and Lo tolerances with audible beeper and visual LEDs.

Scan Mode: Takes 250 readings per second and displays the minimum reading found when the transducer is removed.

CONNECTIONS

Output: Direct USB-C 1.1 PC connectivity.

Transducer Connector: LEMO 00

CERTIFICATION

Factory calibration traceable to NIST & MILSTD-45662A.

WARRANTY

2 year limited.

REPLACEMENT

PMX2-DL replaces PVX & PG70ABDL PMX3-DL replaces PVX Colour



Dakota NDT
an Elcometer company

Made by Dakota NDT, USA