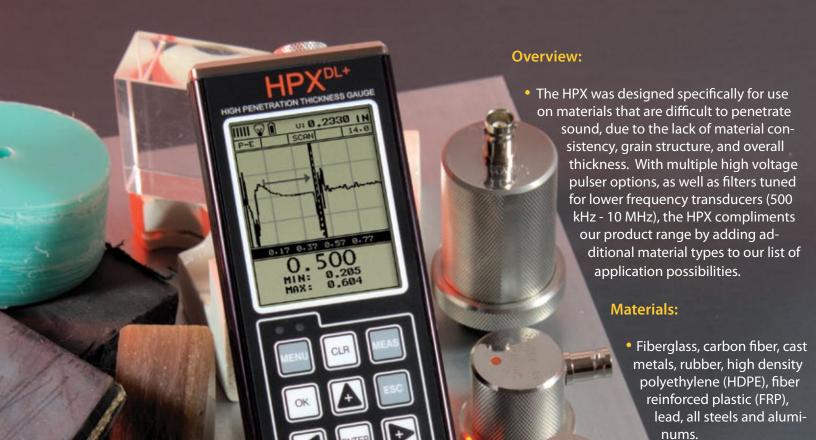
DAKOTA ULTRASONICS

Nothing But Power!

The HPX DL+

High Penetration A-Scan Thickness Gauge



DAKOTA ULTRASONICS

Applications:

• Fiberglass sheets, pipes, storage tanks, aerospace composites, boat hulls, conveyor belts, composite plastics, etc.

HPXDL+ SPECIFICATIONS

Physical

Size:

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

Weiaht:

13.5 ounces (with batteries).

Keyboard:

Membrane switch pad with twelve tactile

Operating Temperature:

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

Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

Data Output:

USB-C port. Windows® PC interface software.

Display:

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).

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo (P-E): Contact transducers. Echo-Echo (E-E): Contact transducers. Echo-Echo Verify (E-EV): Contact transduc-

ers. **Pulser:**

Spike - 200 volt adjustable. Square wave: 400 volt adjustable. Tone Burst: 400 volt adjustable with selectable frequency.

Receiver:

Manual or AGC gain control with 110dB range, varies with mode selected. Adjustable damping (50, 75, 100, 300, 600 & 1500 ohms).

Frequency Range:

500 kHz to 10 MHz.

Timina:

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

Power Source

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

Batteries:

Three AA cells. Alkaline - 35 hrs, Nicad - 10 hrs and NI-MH - 35hrs.

* Dependent on pulser & backlight settings.

Auto power off if idle 5 minutes.

Battery status icon.

Measuring

Range:

* Dependent on material type and consistency.

Pulse-Echo Contact:

Steel .050 in. - 100.0 ft. (1.27 mm - 30.5 M). Composites .100 in. - 5.00 in. (2.54 mm -127 mm).

Echo-Echo Contact:

Steel .100-3.0 ft. (2.54-91.44 cm).

Echo-Echo Verify Contact:

Steel .100-6.0 in. (2.54-152.4 mm).

Resolution (selectable):

+/- .01 inch (0.1 mm). +/-.001 inch (0.01 mm).

Velocity Range:

0.0122 to 0.7300 inches/us 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 25 Hz.

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

Large Digits: Standard thickness view; Digit Height: 0.700 in (17.78 mm).

Scan Bar: Speed 10 Hz. 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 SD card.

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

OBSTRUCT to indicate inaccessible locations.

Transducer

Transducer Types:

Single Contact (1 to 10MHz) & Custom 500 kHz Delay Line (HPD1005B).

Locking quick disconnect LEMO "00" connector.

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

Features

Setups:

64 custom user-defined setups.

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 & MIL-STD-45662A.

Warranty

2 year limited.

MADE IN THE USA

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