

NDT INTERNATIONAL, INC.

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PX-7 and PX-7 DL PRECISION ULTRASONIC THICKNESS GAUGES

These gauges offer a variety of features. The Echo-to-Echo mode provides the ability to measure the thickness of materials without removing the paint or coating. ** 5 Year Limited Warranty**

PHYSICAL DESCRIPTION

Unit Size: 2.5 in. W. x 4.5 in. L. x 1.25 in. D
(63.5W x 114.3L x 31.5D mm)
Weight: 10 oz. (with batteries)
Operating Temperature: -20EF to +120EF (-30EC to +50EC)
Case: Extruded aluminum with nickel-plated end caps
9 Key sealed membrane Keypad
(resistant to both water and petroleum products)

TRANSDUCER

Single-element ultrasonic delay line type
Selectable: Various transducers for appropriate applications.
Lemo quick-disconnect 4-foot long Cable

POWER SUPPLY

Batteries: (2) 1.5V alkaline or 1.2V NiCad AA Cells
Operating Time: Typically 150 hrs. with alkaline, 100 hrs. with NiCad
Display flashes when battery level is low and automatically turns off when too low to operate reliably.

DISPLAY

LCD Display, 4.5 digit, 0.5" high with backlight
Backlight selectable ON / OFF / AUTO (lights only when taking a reading)
Selectable inch and inch / microsecond or millimeters and meters / second.
Bar Graph indicates stability of reading

OPERATION

Measuring Ranges - Inches: 0.0060 to 1.000 inch in mild steel Metric: 0.15 to 25.40 mm in mild steel
Resolution - Inch: 0.0001 in. or 0.001 mm
Material Velocity Range: .0492 to .3937 in./ micro sec. (1,250 to 10,000 meters / second)

MEASURING MODES

<Interface-to-Echo, Echo-to-Echo (through paint) and Auto-Switchable
<Four readings per second for single point measurements or 8 per second in Scan Mode - captures the minimum thickness.
<Single point calibration



....continued on next page

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FEATURES

- <Differential Mode: Enter acceptable thickness value, unit will display +/- the difference from that value.
- <Alarm Mode: Enter a minimum and maximum acceptable thickness value. If measurement falls outside Hi/Lo limits, a Red LED will illuminate and beeper will sound. If measurement is between Hi/Lo limits, Green LED will illuminate.

INTERNAL DATA LOGGER (PX-7 DL only)

- <Automatic Data Logging System, 1000 reading capacity (10 files of 100 readings per file).
OBST indicates no reading.
- <Complete with data acquisition software and interface cable..
- <Data Output: RS-232 output sends data to a serial printer, a computer or other external storage device

Kit includes gauge, (1) transducer and cable, (2) delay tips, 4 oz. bottle of couplant, manual, carrying case and (2) AA alkaline batteries.

TRANSDUCERS - 1/4" Dia. Delay Line (15 MHz supplied if not otherwise requested)

Frequency	Contact Diameter	Application	Measuring Range
15 MHz	.30" (7.6 mm)	Metals & Plastics	0.006" to 1.000" in Steel
20 MHz	.30" (7.6 mm)	Metals & Thin Plastics	0.006" to 0.500" in Steel

Optional Accessories

Transducer Cable, 4 ft. long Microdot to #00 LEMO	P/N N-104-0020
Couplant: 4 oz. bottle, Ultragel-II	P/N UTGL-4
12 oz. bottle, Ultragel-II	P/N UTGL-12
1 Gallon, Ultragel-II	P/N UTGL-GAL
RS-232 Interface Cable	P/N N-306-0010
1/4" Dia. x 3/8" Long Delay Tips	P/N X-231-0000
1/4" Dia. x 1/2" Long Delay Tips	P/N X-241-0000
3/16" Dia. Cone Tip Delays	P/N X-532-0000
PX Series Instrument Case	P/N F-112-0005
Carrying Case with Die Cut Foam	P/N A-100-6002

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