# DAKOTA ULTRASONICS



SOUND SOLUTIONS

# THE PX SERIES THICKNESS GAUGES

**DAKOTA ULTRASONICS** PX Series has arrived. The variety of features offered in the PX-7 and PX-7DL allow the user to select a quality tool that will meet or exceed their specific application needs. In the Echo-to-Echo Mode you have the ability to measure the thickness of materials without removing the paint or the coating. Our 5 year limited warranty indicates how we feel about the reliability and durability of the **PX SERIES.** 

# SPECIFICATIONS

# **Physical**

### Weight:

10 ounces (with batteries).

#### Size:

2.5 W x 4.5 H x 1.24 D inches (63.5 W x 114.3 H x 31.5 D mm).

# **Operating Temperature:**

-20 to 120F (-30 to 50C).

#### Case:

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

# **Keypad**

Sealed membrane that is resistant to both water and petroleum products.

Nine tactile-feedback keys.

#### Transducer

Single element with delay tip.

10 to 22 MHz frequency range.

Locking quick disconnect LEMO connectors.

4 foot cable.

Custom transducers available for special applications.

# Warranty

5 year limited.



# **Power Source**

Two 1.5V alkaline or 1.2V NiCad AA cells.

Typically operates for 25 hours on alkaline and 10 hours on NiCad.

Display flashes when battery is low. Unit turns off automatically when battery is too low to operate reliably.

## **Display**

Multi-function 4.5 digit liquid crystal display with 0.500 inch numerals, backlit for use in poor light conditions.

Backlight is selectable on/off/auto (illuminates only when taking a measurement).

Bar graph indicates stability of reading.

# **Computer Interface**

RS232 serial interface. PC software & USB converter cable included.

#### Certification

Factory calibration traceable to NIST & MIL-STD-45662A.

## Memory (PX-7 DL)

Automatic Data Logging System 1000 reading capacity, (10 files of 100 readings each).

OBST indicates no reading.

Complete with data acquisition software and cables.

# Measuring

# Range:

Measures from 0.006 to 1.000 inches (0.15 to 25.4 millimeters). Range dependent on material and transducer type.

#### **Units:**

**English & Metric** 

#### **Resolution:**

0.0001 inches (0.001 millimeters).

#### **Velocity Range:**

0.0492 to .3937 in/μs. (1250 to 10,000 meters/second).

Four readings per second, single point measurement.

Single point calibration.

# **Features**

#### **Differential Mode:**

Enter acceptable thickness value, unit will display +/- the difference from the value entered.

#### Alarm Mode:

Enter a minimum acceptable thickness value. If measurement falls outside Hi/Lo limits, red LED will illuminate and sounds beep- er. If measurement is between Hi/Lo limits, green LED will illuminate.

#### **Data Output:**

RS-232 output sends data to a serial printer, a computer or other external storage device.

# MADE IN THE USA

Distributed by:



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