# DAKOTA ULTRASONICS Ad anced NDT ZX Series Thickness Gauges **Performance & Simplicity!** Platform: Powered by: 120MHz FPGA timing 150 volt square wave pulser. Pulse-echo measurement. Adjustable gain (40-52dB), in 3dB steps (vlow, low, med, high, vhi). Selectable manual or auto zero. Dual element transducers (1-10MHz options). Low temperature custom LCD display USB-C connectivity (ZX-5 series). DAKOTA ULTRASONICS CDC compatible serial over USB. Optional serial RS232 or bluetooth module (ZX-5). Data Storage: 32 megabit flash memory (ZX-5 DL). IP65 protection rating. 5 year limited warranty. DAKOTA ULTRASONIC SOLUTIONS SOUND

## ZX SERIES THICKNESS GAUGES

The **ZX** series of thickness gauges offer a performance solution built to withstand the roughest industry conditions. The features included in the **ZX** Series offer a quality tool that will meet or exceed your application requirements. Our 5 year limited warranty indicates how we feel about the reliability and durability of the **ZX** Series gauges.

Applications: Corrosion & Pitting • Tube & Pipe • Tanks • Boilers • Glass • Variety of Applications

## SPECIFICATIONS

## **Physical**

#### Weight:

11 ounces (with batteries).

#### Size:

Width (2.5 in / 63.5 mm) Height (5.17 in / 131.3 mm) Depth (1.24 in / 31.5 mm)

#### **Operating Temperature:**

-22 to 167F (-30 to 75C).

#### Cases

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**

Dual-element (transmit and receive).

1 to 10 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, 1.2V NiCad, or 1.5V Lithium AA cells.

Typically operates for 45 hours on alkaline and 23 hours on NiCad.

Low battery indicator on display. Auto shut-off after 5 minutes of inactivity.

Line power USB-C connected to PC or power adapter (ZX-5 series).

#### **Display**

Multi-function 7 segment 4.5 digit liquid crystal display with 0.500 in digit height. Two 0.125 in14 segment fields for labels and values, and one 7 segment field for labels and values. Additional icons to indicate features and modes.

Backlight is selectable on/off/auto, and selectable brightness (Lo, Med, Hi) options.

Bar graph indicates stability of reading.

#### **Data**

Sequential data storage, 40 files of 250 readings per file, for 10,000 readings (ZX-5 DL).

#### Software

Comes complete with cable and PC software (ZX-5 DL).

#### Certification

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

## Measuring

#### Range:

Measures from 0.025 to 36.00 inches (0.63 to 1219 millimeters). Range dependent on material and transducer type.

Units: English & Metric

**Resolution:** 

0.001 inches (0.01 millimeters)

**Velocity Range:** 

0.0120 to .7300 in/ $\mu$ s (305 to 18,542 m/sec)

PRF: 200Hz

Display Update Rate: 10Hz

Gain: 40-52dB range in 3dB steps.

#### **Features**

#### Zero:

Manual or auto zero option.

#### **Probe Diameter:**

Selectable probe diameter for improved linearity.

## **High Speed Scan:**

Display the lowest reading found during a scan. Scan speed at 100Hz.

#### **Differential Mode:**

Display the +/- difference from a nominal value entered (ZX-5 series).

## Alarm Mode:

High & low alarm limits with audible and visual indicatiors (ZX-5 series).

#### VX velocity:

Measure in terms of velocity for nodularity testing (ZX-5 series).

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## MADE IN THE USA

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Specifications subject to change without notice. (E & O.E.)

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