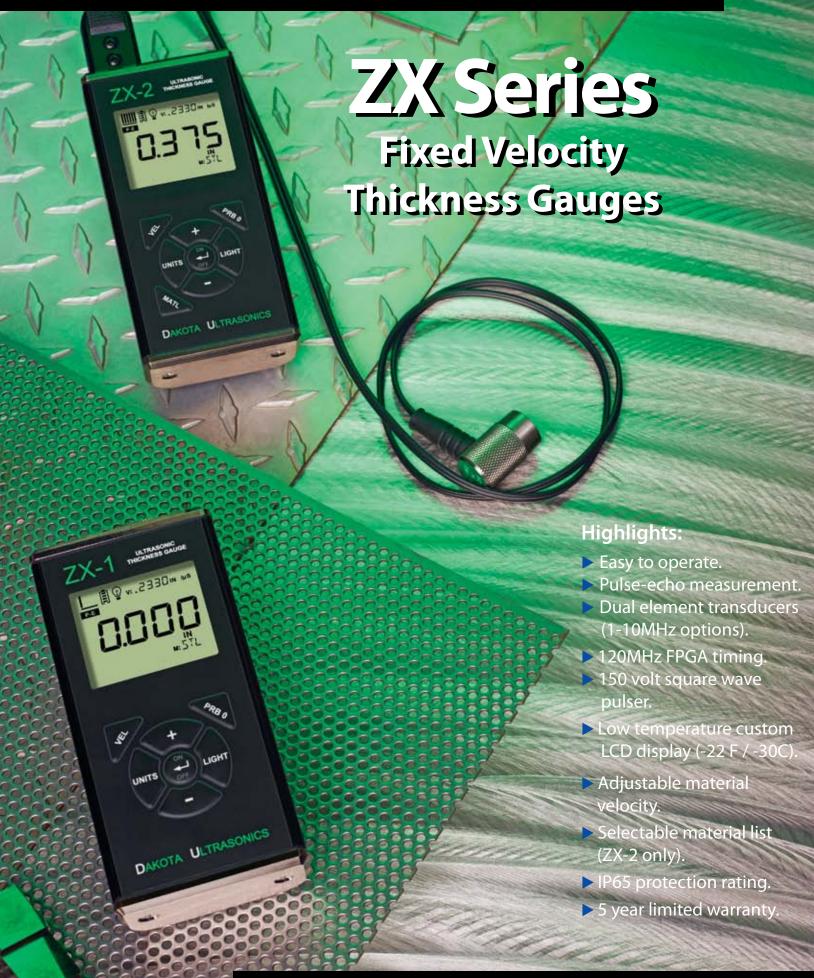
## DAKOTA ULTRASONICS



SOUND SOLUTIONS

## ZX-1 & ZX-2 THICKNESS GAUGES

The **ZX-1 & 2** are basic fixed velocity gauges that require no special training to operate. Calibration is done by simply scrolling to a known material velocity, or selecting a common material from a list of material types in the **ZX-2**. The gauges were designed and built to withstand the roughest industry conditions, are affordable, and backed by a 5 year limited warranty. If you're looking for a quality instrument to reliably meet or exceed your application expectations, look no further.

## 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).

#### Case:

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

#### **Keypad**

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

Seven or eight 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.

#### **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. Unit turns off automatically when battery is too low to operate reliably.

### **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.

#### Certification

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

#### Warranty

5 year limited.

### Measuring

#### Range:

Measures from 0.025 to 36.00 inches (0.63 to 914.4 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/µs (305 to 18,542 m/sec)

PRF: 200Hz

**Display Update Rate: 10Hz** 

#### **Velocity Settings:**

**ZX-1:** Adjustable on keypad.

**ZX-2:** Adjustable on keypad and selectable from 8 factory presets and 2 programmable custom velocity options.

**Velocity Chart** in. / mm 1. Steel 4340 .2330 / 5918 .2230 / 5664 2. Stainless 303 3. Aluminum 2024 .2510 / 6375 4. Cast Iron .1800 / 4572 5. Plexiglass .1060 / 2692 6. PVC .0940 / 2388 7. Polystyrene .0920 / 2337 8. Polyurethane .0700 / 1778

9. Custom 10. Custom



## MADE IN THE USA

Distributed by:



# Russell Fraser Sales Pty Ltd

Unit 10 / 1-11 Burns Road, Heathcote NSW 2233 Australia

Ph: +61 2 9545 4433 Email: rfs@rfsales.com.au Website: rfsales.com.au