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Dakota NDT
an Elcometer company



ZX1

Fixed Velocity Thickness Gauge

HIGHLIGHTS:

- Easy to operate.
- Pulse-echo measurement.
- Dual element transducers (1-10MHz options).
- 120MHz FPGA timing.
- 150 volt square wave pulser.
- Low temperature custom LCD display (-22°F / -30°C).
- Adjustable material velocity.
- 5 year limited warranty.

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DAKOTA ZX1 THICKNESS GAUGE

The **ZX1** is a basic fixed velocity gauge that requires no special training to operate. Calibration is done by simply scrolling to a known material velocity. The gauge was designed and built to with stand the roughest industry conditions, is 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 / 63.5mm)
Height (5.17 in / 131.3mm)
Depth (1.24 in / 31.5mm)

Operating Temperature:
-22 to 167°F (-30 to 75°C).

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 tactile-feedback keys.

TRANSDUCER

Dual-element (transmit and receive).

1 to 10MHz 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.

REPLACEMENT

ZX1 replaces ZX-1

MEASURING

Range:
Measures from 0.025 to 36.00 inches (0.63 to 914.4mm). Range dependent on material and transducer type.

Units:
English & Metric

Resolution:
0.001 inches (0.01mm)

Velocity Range:
0.0120 to .7300 in/µs
(305 to 18,542 m/sec)

PRF: 200Hz

Display Update Rate: 10Hz

Velocity Settings:

ZX1: Adjustable on keypad.

CE UKCA

MADE IN THE USA

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