

## 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 (-22 F / -30C).
- ▶ USB-C connectivity (ZX-5 series).
  - ▶ 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.



# 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).

**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

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 in 14 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 USB download  
cable (ZX-5 DL). No software required,  
comma separated file type (.csv).

### Certification

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

### 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/ $\mu$ 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 indicators (ZX-5 series).

**VX velocity:**

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



## MADE IN THE USA

Distributed by:



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