



# ZX-3 & ZX-5 Series

## Thickness gauges

ELECTRONICS

ACOUSTIC

WEIGHT

OVERLOADING  
SAFETY SYSTEMS

VALVES

TEMPERATURE

DETECT  
A FIRE®

FLOW

DENSITY

INTERFACE

PRESSURE

LEVEL



### ZX-3 & ZX-5 SERIES

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

#### 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 / -30C)
- Adjustable material velocity
- Selectable material list (ZX-2 only)
- IP65 protection rating
- 5 year limited warranty



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# SPECIFICATIONS

|                      |  |
|----------------------|--|
| <b>Physical</b>      | <p>Weight: 11 ounces (with batteries)<br/>         Size: width (2.5 in / 63.5 mm) - Height (5.17 in / 131.3 mm) - Depth (1.24 in / 31.5 mm)<br/>         Operating temperature: -22 to 167F (-30 to 75C)<br/>         Case: extruded aluminum body with nickel-plated aluminum end caps (gasket sealed)</p>  |
| <b>Keypad</b>        | Sealed membrane that is resistant to both water and petroleum products. Seven or eight tactile-feedback keys.  |
| <b>Transducer</b>    | <p>Dual-element (transmit and receive)<br/>         1 to 10 MHz frequency range<br/>         Locking quick disconnect LEMO connectors<br/>         4 foot cable<br/>         Custom transducers available for special applications</p>   |
| <b>Warranty</b>      | 5 year limited   |
| <b>Power Source</b>  | <p>Two 1.5V alkaline, 1.2V NiCad, or 1.5V Lithium AA cells<br/>         Typically operates for 45 hours on alkaline and 23 hours on NiCad<br/>         Low battery indicator on display<br/>         Unit turns off automatically when battery is too low to operate reliably</p>  |
| <b>Display</b>       | <p>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<br/>         Backlight is selectable on/off/auto, and selectable brightness (Lo, Med, Hi) options<br/>         Bar graph indicates stability of reading</p>  |
| <b>Data</b>          | Sequential data storage, 40 files of 250 readings per file, for 10,000 readings (ZX-5 DL)  |
| <b>Software</b>      | Comes complete with USB download cable (ZX-5 DL). No software required, comma separated file type (.csv)   |
| <b>Certification</b> | Factory calibration traceable to NIST & MIL-STD-45662A   |
| <b>Measuring</b>     | <p>Range: measures from 0.025 to 36.00 inches (0.63 to 914.4 millimeters).<br/>         Range dependent on material and transducer type<br/>         Units: English &amp; Metric<br/>         Resolution: 0.001 inches (0.01 millimeters)<br/>         Velocity Range: 0.0120 to .7300 in/<math>\mu</math>s (305 to 18,542 m/sec)<br/>         PRF: 200Hz<br/>         Display update rate: 10Hz<br/>         Gain: 40-52dB range in 3dB steps</p>   |
| <b>Features</b>      | <p>Zero: manual or auto zero option<br/>         Probe diameter: selectable probe diameter for improved linearity<br/>         High speed scan: display the lowest reading found during a scan Scan speed at 100Hz<br/>         Differential mode: display the +/- difference from a nominal value entered (ZX-5 series)<br/>         Alarm mode: high &amp; low alarm limits with audible and visual indicators (ZX-5 series)<br/>         VX velocity: measure in terms of velocity for nodularity testing (ZX-5 series)</p> |