

Dakota ZX Thickness Gauges

Can be used in accordance with: NIST & MIL-STD-45662A



The Dakota ZX Corrosion Thickness Gauges are basic thickness gauges making them affordable tools that require no special training to operate. The ZX Corrosion Thickness Gauge is available in seven different models. Each thickness gauge provides the inspector with increasing functionality - from the entry level Dakota ZX1 Thickness Gauge to the top of the range Dakota ZX6-DL Corrosion Thickness Gauge.

Each Dakota ZX Thickness Gauge has been designed to withstand the harshest environments, made from an extruded aluminium body and is equipped with an LCD screen for improved visibility during sunlight.

Key Features

- ZX1: Pre-calibrated for steel, ready to use out of the box.
- ZX2: Offers more pre-set calibration options with selectable material velocities and a stored material list
- Adjustable gain is available in ZX6 and ZX6-DL, with automatic Time Dependent Gain in both modes.
- Durable Design made with extruded aluminium bodies for harsh environments.
- LCD Screen for enhanced visibility in sunlight.
- Repeatable and reproducible accuracy for reliable measurements
- 5-year manufacturer's warranty for peace of mind.
- ZX6/ZX6-DL: Top models combining pulse-echo flaw detection with multi-echo through paint mode, eliminating coating errors without removal.

Applications



Corrosion & Pitting



Tanks



Glass



Boilers



Tube & Pipe

Product Features

Model & Part Number	ZX1	ZX2	ZX3	ZX5	ZX5-DL	ZX6	ZX6-DL
Display Mode							
Material thickness digits display	■	■	■	■	■	■	■
Measurement Range	PE: 0.63 - 914.4mm	PE: 0.63 - 914.4mm	PE: 0.63 - 914.4mm	PE: 0.63 - 914.4mm	PE: 0.63 - 914.4mm	PE: 0.63 - 914.4mm EE: 2.54 - 152.4mm	PE: 0.63 - 914.4mm EE: 2.54 - 152.4mm
Measurement Resolution	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Velocity Calibration Range	305 - 18,542m/s	305 - 18,542m/s	305 - 18,542m/s	305 - 18,542m/s	305 - 18,542m/s	305 - 18,542m/s	305 - 18,542m/s
Additional Features							
Velocity Settings	1 programmable velocity, pre-calibrated for steel	2 user programmable & 8 pre-calibrated velocities for: aluminium, cast iron, plexiglass, polystyrene, polyurethane, PVC, stainless steel & steel					
High Speed Scan Mode			■	■	■	■	■
Differential Mode				■	■	■	■
Limit alarm mode				■	■	■	■
Memory and Data Logging				Sequential data storage, 40 files of 250 readings per file, for 10,000 readings		Sequential data storage, 40 files of 250 readings per file, for 10,000 readings	
Transducer Probe Type	Dual element	Dual element	Dual element	Dual element	Dual element	Dual element	Dual element
Transducer Frequency Range	1 - 10MHz	1 - 10MHz	1 - 10MHz	1 - 10MHz	1 - 10MHz	1 - 10MHz	1 - 10MHz
V-path / dual path error correction	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Probe Zero	Manual (via integrated probe disk)	Manual (via integrated probe disk)	Manual (via integrated probe disk)	Manual (via integrated probe disk)	Manual (via integrated probe disk)	Manual (via integrated probe disk)	Manual (via integrated probe disk)
Display	12.7mm 4.5-digit LCD	12.7mm 4.5-digit LCD	12.7mm 4.5-digit LCD	12.7mm 4.5-digit LCD	12.7mm 4.5-digit LCD	12.7mm 4.5-digit LCD	12.7mm 4.5-digit LCD
Units (selectable)	mm	mm	mm	mm	mm	mm	mm
LED Backlight	on/off/auto	on/off/auto	on/off/auto	on/off/auto	on/off/auto	on/off/auto	on/off/auto
Repeatability / Stability Indicator	■	■	■	■	■	■	■

Technical Specifications

Part Number	Description	Certificate
Z-300-0003	Dakota ZX1 Thickness Gauge (ZX-1)	●
Z-301-0003	Dakota ZX2 Thickness Gauge (ZX-2)	●
Z-302-0003	Dakota ZX3 Thickness Gauge (ZX-3)	●
Z-303-0003	Dakota ZX5 Thickness Gauge (ZX-5)	●
Z-304-0003	Dakota ZX5-DL Thickness Gauge (ZX-5DL)	●
Z-305-0003	Dakota ZX6 Thickness Gauge (ZX-6)	●
Z-306-0003	Dakota ZX6-DL Thickness Gauge (ZX-6DL)	●
Operating Temperature	-30 to 75°C	
Power Supply	2 x AA batteries	
Battery Life	Alkaline – 45 hrs and Nicad – 23 hrs	
Gauge Weight	312g - including batteries	
Gauge Dimensions	63.5 x 131 x 31.5mm	

- Certificate of Calibration supplied as standard

Packing List

Dakota ZX Thickness Gauge

Selectable Transducer

Couplant

Manual

Plastic Carrying Case

Certificate of Calibration

AA Batteries

PC Software

Data Transfer Cable

Part Numbers

Dakota ZX1 Corrosion Thickness Gauge



Part Number: Z-300-0003

Dakota ZX2 Corrosion Thickness Gauge



Part Number: Z-301-0003

Dakota ZX3 Corrosion Thickness Gauge



Part Number: Z-302-0003

Dakota ZX5 Corrosion Thickness Gauge



Part Number: Z-303-0003

Dakota ZX5-DL Corrosion Thickness Gauge



Part Number: Z-304-0003

Dakota ZX6 Corrosion Thickness Gauge



Part Number: Z-305-0003

Dakota ZX6-DL Corrosion Thickness Gauge



Part Number: Z-306-0003
