

Dakota PZX Precision Thickness Gauges (PZX-7)

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



When pinpoint accuracy is the key, the variety of features offered in the Dakota PZX1, and PZX1-DL Precision Thickness Gauge allow users to measure with precision. The Dakota PZX1 Precision Thickness Gauge series has ThruPaint technology allowing you to accurately measure the thickness of thin substrates.

The gauges are typically used for thin material applications. This gauge can calibrate to a variety of different materials using the one-point calibration option.

Applications



Precision Machining



Stamping



Aircraft



Automotive



Thin Plastics

Product Features

Model	PZX1	PZX1-DL
Display Mode	■	■
Material thickness digits display	■	■
Measurement Range	PE: 0.63 - 914.4mm	PE: 0.63 - 914.4mm
	EE (single delay line): 0.152 - 25.4mm	EE (single delay line): 0.152 - 25.4mm
	EE (single contact): 1 - 152.4mm	EE (single contact): 1 - 152.4mm
	IE (Interface-Echo): 1.524 - 25.4mm	IE (Interface-Echo): 1.524 - 25.4mm
	Plastic (PLAS): 0.127 - 6.35mm	Plastic (PLAS): 0.127 - 6.35mm
Resolution	0.01mm	0.01mm

Velocity Calibration Range	309.88 - 18,542m/s	309.88 - 18,542m/s
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Additional Features

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
Transducer Probe Type	Single Element	Single Element
Transducer Frequency Range	5 - 20MHz	5 - 20MHz
Transducer Recognition	Manual - selectable from a list	Manual - selectable from a list
Auto V-path correction	■	■
Display	12.7mm high digits	12.7mm high digits
Probe Zero	Manual (via integrated probe disk)	Manual (via integrated probe disk)
Display Refresh Rate	25Hz	25Hz
Units (selectable)	mm	mm
LED Backlight	on / off / auto	on / off / auto
Repeatability / Stability Indicator	■	■

Technical Specifications

Part Number	Description	Certificate
Z-307-0002	Dakota PZX1 Precision Thickness Gauge (PZX-7)	●
Z-308-0002	Dakota PZX1-DL Precision Thickness Gauge (PZX-7 DL)	●
Operating Temperature	-10 to 60°C	
Power Supply	2 x AA batteries	
Battery Life	Alkaline – 35 hrs, Nicad – 18 hrs	
Gauge Weight	312g - including batteries	
Gauge Dimensions	63.5 x 131 x 31.5mm	

● Certificate supplied as standard.

Packing List

- Dakota PZX Precision Thickness Gauge
- Standard 1/4" Delay Line Transducer (2 Delay Tips – 3/8" & 1/2" L) & Cable
- Couplant
- Manual
- Certificate of Calibration
- AA Batteries
- Plastic Carrying Case

Part Numbers

Dakota PZX1 Precision Thickness Gauge (PZX-7)



Part Number: Z-307-0002

Dakota PZX1-DL Precision Thickness Gauge (PZX-7 DL)



Part Number: Z-308-0002