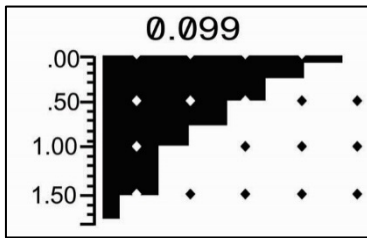


# TG-110DL

MINIATURE ULTRASONIC THICKNESS GAGE PACKAGE



Time encoded B-Scan capability

Row:3 Col:1

0.280	0.513	0.746	0.979
0.326		0.792	1.025
0.373	0.606	0.839	

Customizable Data Logger



TG-110 Package including a probe

## Introduction

The TG-110DL is a simple as well as versatile ultrasonic thickness gage which can be used for a large variety of measurements. Because of the fact that the unit works with dual element transducers, it also exhibits excellent corrosion inspection capabilities. The unit can be set up for thickness measurement by the push of a few buttons only, and can also conveniently log data by defining a user-definable data matrix.

The TG-110 can be used for applications on a large variety of materials such as metals, glass, plastics, etc.

In addition to the above, a purchasable option further allows to measure through a coat of paint or similar layer covering the actually material to be inspected.

## Applications

- Corrosion & pitting measurement
- Tube and pipe inspection
- Tanks inspection
- Boilers Glass measurement

## Key features

- Automatic Probe Recognition system
- A series of 10 transducers ranging from 2.25MHz to 10MHz
- Single and two-point calibration
- 1 or 2-dimensional data logger storing up to 50000 data points
- Time encoded B-Scan measurement capabilities
- English/Metric units



# TG-110DL



## MINIATURE ULTRASONIC THICKNESS GAGE PACKAGE



### TG-110 Transducer Series

Transducer	TG-208	TG-506	TG-560P	TQ-506	TG-790	TG-790HP	TG-502	TG-505	TG-702	TG101HR
<b>Freq [MHz]</b>	2.25	5	5	5	5	5	5	5	7.5	10
<b>Ø [in]</b>	0.75"	0.375"	0.375"	0.375"	0.325"	0.325"	0.20"	0.30"	0.20"	0.20"
<b>Details</b>	Low Frequency	Standard	Through-paint	Very high temp	High temp	High Temp High Power	Small tip, cable attached	Medium tip, cable attached	High Frequency, cable attached	Very high Frequency

### Instrument Technical Specifications

<b>General</b>	Package	TG-110 unit, 'AA' Alkaline batteries, LMD1 cable, transducer (Model depending on package ordered), User manual, COC, Pelican Case
	Display	128 x 64 pixels   1.96in x 1.25in (49mm x 32mm)   automatic/on/off backlight
	Dimensions	4.9in x 3in x 1.25in, 0.9lbs   124mm x 76mm x 32mm, 0.41kg
	Power source	2 field-replaceable 'AA' batteries (autonomy of 24+ hours of operation)
	Operating temp	32 F - 122 F (0 °C to 50 °C)
	Storage temp	-4 F - 140 F (-20 °C to 60 °C)
	Connector type	Dual Lemo00
	Units	Inch/MM
<b>Transducer</b>	Type	Dual element   Contact
	Frequency	2.25 MHz - 10 MHz
<b>Performance</b>	Measurement Range	0.022in – 50.000" in (0.055mm – 1270mm)
	Resolution	0.001in (0.0254mm)
	Calibration process	Single and Two-point calibration menu
	Velocity	0.0490 in/us – 0.9999 in/us (1.24mm/us – 25.4mm/us), fully adjustable
	Thickness modes	Normal, Differential, Minimum hold
	Pulser PRF	250Hz
<b>Alarm</b>	Alarm types	Visual   Thickness high, low, both
<b>Receiver</b>	Gain	High and Low setting
<b>Storage</b>	Internal	50.000 point measurements data logger, 30 character alpha-numerical identification of files
<b>Connectivity</b>	PC Software	Windows based USB Data Transfer Software: up- and download setups and data (optional)
<b>Software options</b>	Though-Paint	Enables software menu selection to measure through paint (or equivalent non-metallic layer) when used in conjunction with the specially adapted TG-560P transducer
	Velocity measurement	Enables software menu to define a known thickness and in turn measure the material velocity

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