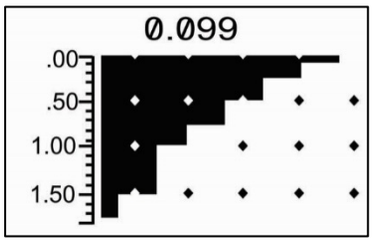
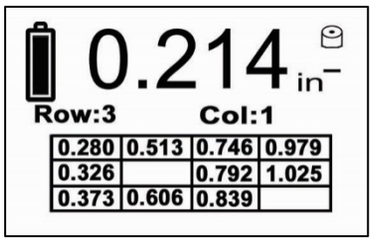
TG-110DL

NDT Systems
Worldwide Excellence In Ultrasonics

MINIATURE ULTRASONIC THICKNESS GAGE PACKAGE



Time encoded B-Scan capability



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-502
TG-702

TG-208

TG101HR

TQ-506

TG-790
TG-790HP

TG-506
TG-560P

TG-505

TG-110 Transducer Series										
Transducer	**TG-208**	**TG-506**	**TG-560P**	**TQ-506**	**TG-790**	**TG-790HP**	**TG-502**	**TG-505**	**TG-702**	**TG101HR**
Freq [MHz]	2.25	5	5	5	5	5	5	5	7.5	10
Ø [in]	0.75”	0.375”	0.375”	0.375”	0.325”	0.325”	0.20”	0.30”	0.20”	0.20”
Details	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		
General	Package	TG-110 unit, ‘AA’ Alkaline batteries, LMD1 cable, transducer (Model depending on package ordered), User manual, Data Transfer Software, 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
Transducer	Type	Dual element | Contact
	Frequency	2.25 MHz - 10 MHz
Performance	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
Alarm	Alarm types	Visual | Thickness high, low, both
Receiver	Gain	High and Low setting
Storage	Internal	50.000 point measurements data logger, 30 character alpha-numerical identification of files
Connectivity	PC Software	Windows based USB Data Transfer Software: up- and download setups and data
Software options	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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