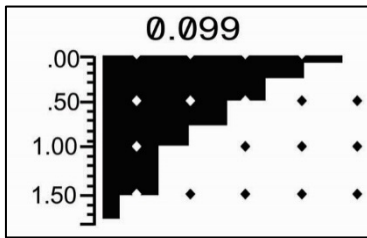


TG-110DL

MINIATURE ULTRASONIC THICKNESS GAGE PACKAGE



Time encoded B-Scan capability

0.214 in

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 |
|-------------------|---------------|----------|---------------|----------------|-----------|----------------------|---------------------------|----------------------------|--------------------------------|---------------------|
| 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 (0.55mm – 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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