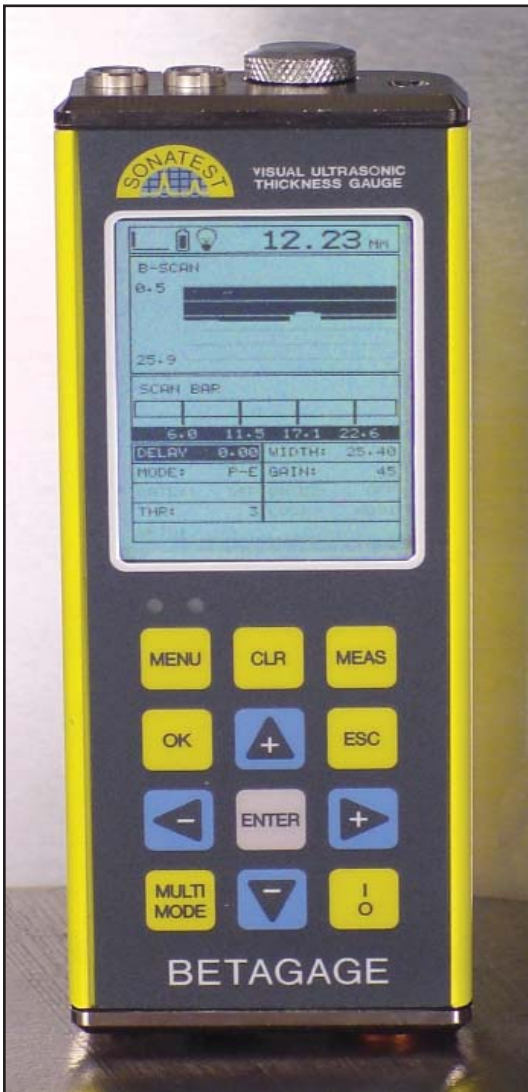
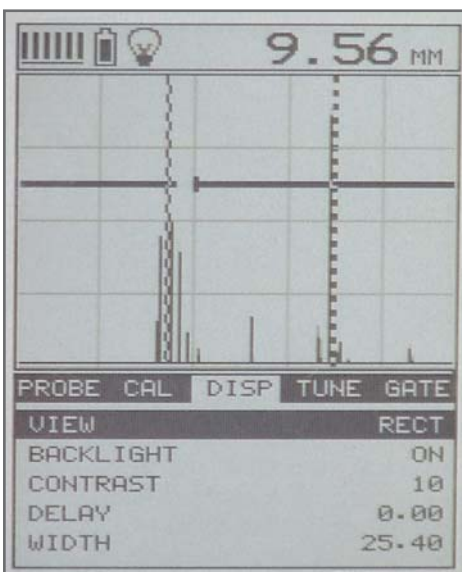


BETAGAGE



B-Scan View



A-Scan View

The BETAGAGE is an affordable yet versatile ultrasonic thickness/corrosion gauge utilising a variety of viewing options to suit the operator and application.

- ▶ A-Scan display for verification of flaw/pit.
- ▶ Timed B-Scan display for cross-sectional view.
- ▶ Large Digits view for simple thickness readout.

FEATURES

Measures to first echo (flaw/pit) or echo-echo (thru paint).

Repeatability Bar Graph to indicate stability of reading.

Hi and Lo tolerance limits with audible/visual alarms.

Fast Scan mode holds minimum thickness reading.

Internal data logger stores 12,000 readings/A-scans.

Windows PC software for transferring data, RS232 compatible, included in kit.

Measurement resolution +/- 0.01mm (0.001 in).

Single or 2 point calibration, or recall velocity from on-board library.

Wide choice of transducer types available.

Uses 3 x AA cells to give 150 hours operation.

SPECIFICATIONS

Physical

Weight:

383 g (13.5 oz) with batteries.

Size:

63.5 W x 165 H x 31.5D mm
(2.5W x 6.5H x 1.24D inches).

Operating Temperature:

-10° to 60°C (-14° to 140°F).

Keyboard:

Membrane switch with twelve tactile keys.

Case:

Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

Data Output:

Bi-directional RS232 serial port. Windows® PC interface software.

Display:

45.7mm VGA grayscale display. (240 x 160 pixels).
Viewable area
62 x 45.7mm (2.4 x 1.8 in)
EL backlit (on/off/auto).

Ultrasonic Specifications

Measurement Modes:

Pulse-Echo (flaws, pits)

Echo-Echo (thru-paint)

Pulser:

Square wave pulser with adjustable pulse width (spike, thin, wide).

Receiver:

Manual or AGC gain control with 40dB range, depending on mode selected.

Timing:

20 MHz clock with ultra low power.

8 bit digitizer.

Measuring

Range:

Pulse-Echo Mode: (Pit & Flaw Detection) measures from 0.63 to 254 mm (0.025 to 9.999 ins).

Echo-Echo Mode: Thru Paint & Coatings) measures from 2.54 to 102 mm (0.1 to 4.0 ins).

Range will vary +/- depending on the thickness of coating.

Resolution: +/- 0.01mm (.001in)

Velocity Range:

1250 to 9999 meters/sec
(.0492 to 0.3936 in./ms)

Single and Two point calibration option, or selection of basic material types.

Units: English & Metric

Display Views

A-Scan Rectified +/- (flaw view)
RF (full waveform view)

B-Scan Cross sectional view.
Display speed of 15 secs per screen.

Large Digits Standard thickness view. Digit Height: 10mm (0.4 in)

Scan Bar Thickness 6 readings per second. Viewable in B-Scan and Large Digit views.

Repeatability Bar Graph indicates stability of reading.

Certification

Factory calibration traceable to national standards.

Warranty

2 year limited



Cert No: Q5036

Iss 1/05_2006
Part No: 147306



Data Logger (Internal)

12,000 pages of memory (alpha numeric storage).

Page contents:

1 reading and 1 waveform per page.

OBSTRUCT to indicate inaccessible locations.

Memory:

16 megabit non-volatile ram.

Transducer Types

Dual Element (1 to 10 MHz).

Locking quick disconnect

“00” LEMO connectors.

Standard 1.2m cable.

Custom transducers and cable lengths available for special applications.

Features

Setups:

64 user-definable setups.

Factory setups can also be edited by the user.

Gates:

Single gate in pulse-echo mode, or single gate with hold-off in echo-echo mode.

Adjustable threshold.

Selectable Transducers:

Selectable transducer types with built-in dual path error correction for improved linearity.

Alarm Mode:

Set hi and lo tolerances with audible beeper and visual LEDs.

Fast-Scan Mode:

Takes 32 readings per second and displays the minimum reading found when the transducer is removed.



A Sonatest NDE Group Company

For further information contact:

Sonatest Ltd
Tel: +44(0)1908 316345
FAX: +44(0)1908 321323
Email: sales@sonatest.com
www.sonatest.com

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