Sonatest
Inspect with Confidence

Microgage III Series

The Microgage III series, is available with a choice between monochrome and colour displays and with or without A-Scan capability.

All instruments across the range are field upgradeable, allowing the operator to opt for further features further down the line, without returning the instrument to the factory.

The variety of features offered by the Microgage III series allows the user to select a quality tool that will exceed their application needs. The Echo-to-Echo capability allows measurement of the thickness of materials without removing paint or coatings.

Designed with the user in mind, the Microgage III utilises state-of-the-art digital technology to produce fast accurate readings. Available in 7 models including basic (B, datalogging (DL), with and without waveform (W) and with monochrome or colour (C) displays.

Features Include:

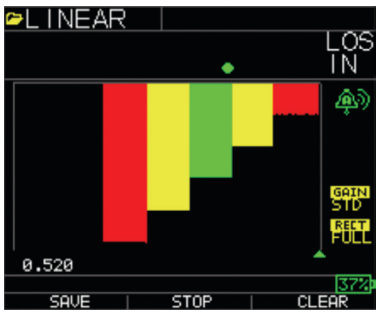
- 0.0001 resolution.
- 30 MHz bandwidth.
- Sunlight readable.
- Zoom auto tracking.
- Live A-scan (colour optional).
- Storage and recall of set ups.
- Datalogger 100,000 readings.
- Vibration and colour change with alarm.
- Multiple Modes for challenging applications.
- Real-Time adjustment of initial gain, slope, range, rectification, zoom and blankings
- Languages include: English, German, French.

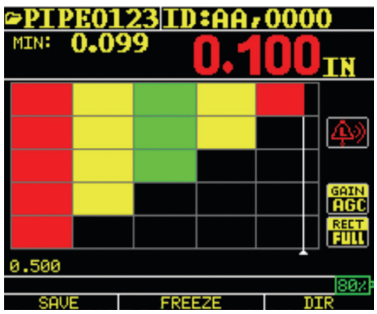
Applications include:

- Fibreglass Thickness (boats
- Coil Steel
- Titanium (golf club heads)
- Rubber Tyres
- Thin Walled Components,
- Aerospace applications
- Plastics Manufacturing.

B-Scan Feature

- Included with DL version.
- Cross sectional view of test piece
- Enter Maximum Thickness
- Saves B-Scan in DL
- Easy to review
- Shows all readings in review mode
- Interfaces with Data XLS software





Uses Colours based on alarm system. Red = below minimum Yellow = caution Green = good

Specifications

PHYSICAL		Languages	English, German, French, Spanish, Czech, Finnish & Others
Weight	230g (8 ounces)	Resolution	0.001mm (0.0001 ins): 0.01mm (0.001 ins)
Size	5.0(W) x 127.0(H) x 31.8(D)mm (3" x 5" x 1.25" inches)	Probe recognition	Via pack list from menu.
Operating Temperature	-20 to 50°C (-4°F to 122°F)	Delay Line Zero Measurement	Auto at power up with listed numeric value. Ideal for correcting delay line wear/curvature and for transducer acoustic drift at elevated temperatures.
Material Surface Temperature	-20°C to 537°(-5° to 1000"C) Depending on Probe use.	Stored Setups	Ability to store up to 30 custom set ups to retain valuable parameter settings such as sound, velocity, gain, slope, range.
Package	Custom splash-proof (IP54), High-impact plastic with rubber, illuminating keypad for go/no-go testing.	Modes of Measurement Class 1	Main bang to first wall back echo
Thickness Range	0.10mm – 508mm (0.004 - 20ins), depending on material temperature and transducer selection.	Class 2	
Material Velocity Calibration Range	0.508 – 18.699mm/µsec (0.200-0.7362 in/sec).	Class 3	Echo to Echo following an interface echo from a delay line or water column.
POWER SOURCE		Bandwidth	0.5 – 30MHz (-3dB).
Battery Type	2 x AA alkaline	Pulser	Square Wave
Battery Life	Monochrome operates to 50 hrs (20 hrs with backlight on). Colour display up to 40 hrs (15 hrs with backlight on).	Waveform	Live colour waveform with dynamic colour change on alarm, large thickness reading. Live monochrome waveform.
Display	128 x 64 Graphics LCD Monochrome. 220 x 170 Graphic Colour TFT display	Rectify	RF, Full Wave, Half Wave+, Half Wave-.
Information Displays	LoS, min, max, large reading while displaying min at the same time, velocity, zero, calibration, units, freeze, % battery life remaining, gain – low, std, high, echo to echo symbol.	Gain	Auto or Manual in 1dB steps for varying test conditions Low, Standard and High for varying test conditions.
Units	English/Metric/Microseconds.	Time Dependant Gain	Adjust for slope and gain level as a function of time.

Feature	Microgage III B	Microgage III	Microgage III DL	Microgage III W	Microgage III DLW
Thickness Range 0.10mm - 508mm (0.004 - 20 inches) (dependant on material and transducer selection)	•	•	•	•	•
Scan Mode (20MHz)	•	•	•	•	•
Hold Mode	•	•	•	•	•
Freeze Mode	•	•	•	•	•
Illuminated Keypad	•	•	•	•	•
Units (Inches/Millimetres/Microseconds)	•	•	•	•	•
Gain	—	•	•	•	•
Differential	—	•	•	•	•
Alarms (with vibrate)	Yes (no vibrate)	•	•	•	•
B-Scan	—	Optional	•	•	•
A-Scan	—	Optional	Optional	•	•
Datalogger	—	Optional	•	—	•
Main bang blanking	—	Optional	Optional	•	•
Interface blanking	—	Optional	Optional	•	•
Stored set ups	—	•	•	•	•

Russell Fraser Sales Pty Ltd
Unit 10 / 1-11 Burns Road, Heathcote NSW 2233 Australia
Ph: +61 2 9545 4433 Email: rfs@rfsales.com.au Website: rfsales.com.au

REV03_0323

Sonatest