



# 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.

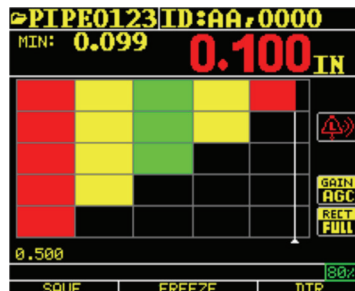
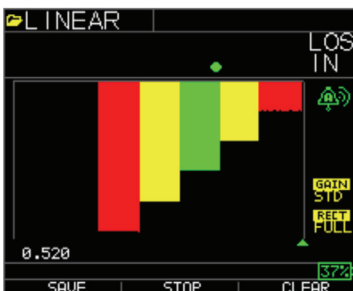
#### Features Include:

- 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

# Simplicity | Capability | Reliability

# Specifications

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

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