Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

9460

Accredited to ISO/IEC 17025:2005

NDT Maincal Limited

Issue No: 004 **Issue date:** 10 April 2018

NDT Maincal Limited **Unit 1a** **Bingswood Trading Estate** **Whaley Bridge** **High Peak** **SK23 7LY**	**Contact: Lee Wilde** **Tel: +44 (0) 1663 735283** **Fax: +44 (0) 1663 733482** **E-Mail: Lee@maincal.com** **Website: www.maincal.com**

Calibration performed by the Organisation at the locations specified

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address NDT Maincal Limited Unit 1a Bingswood Trading Estate Whaley Bridge High Peak SK23 7LY United Kingdom	**Local contact** Lee Wilde Tel: +44 (0) 1663 735283 Fax: +44 (0) 1663 733482 E-Mail: Lee@maincal.com	Magnetic particle inspection and associated equipment Ultrasonic test equipment	Lab

Site activities performed away from the locations listed above:

Location details	Activity	Location code
The customers' site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer.	Magnetic particle inspection and associated equipment Ultrasonic test equipment	Site

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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks	Location Code
DC Current	0 A to 2.5 A 2.5 A to 10 A	0.1 A 4.0 %		Lab & Site
DC Current All waveforms	10 A to 50 A 50 A to 3 kA	5.0 % 3.0 %		Lab & Site
AC Current 50Hz all waveforms	50 A to 3.5 kA	3.0%		Lab & Site
AC & DC half wave peak current	50 A to 2.5 kA 2.5 kA to 4.95 kA	4.2 % 4.5 %		Lab & Site
Frequency	10 Hz to 15 MHz	0.50 %		Lab & Site
Current Shot elapsed time	0 s to 1.9 s 1.9 s to 4.8 s	22 ms 56 ms		Lab & Site
AC Conductivity Nominal 60 kHz Sourcing nominal values				Lab
	2 MS/m to 60 MS/m	0.75 %	Note; 58.0 MS/m = 100 % on the International Annealed Copper Scale	
Measurement	2 MS/m to 60 MS/m	1.3%		

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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL VERIFICATION of ULTRASONIC FLAW DETECTION EQUIPMENT	As BS EN 12668-1:2010 Group 2 tests and including the following calibrations and quantities:			Lab & Site
	Stability after warm up (height)	0.50 % of screen height	These claims are all dominated by the resolution of the digital readout rather than the display resolution.	
	Stability after warm up (width)	0.50 % of screen width		
	Jitter - screen height	0.50 % of screen height		
	Jitter - screen width	0.50 % of screen width		
	Stability against voltage variation (height)	0.50 % of screen height		
	Stability against voltage variation (width)	0.5 % of screen width		
	Transmitter voltage 50 V to 500 V	4.2 %		
	Pulse risetime 30 V to 450 V	3.0 ns		
	Pulse duration 1 ms to 25 ns	2.0 ns + 2.0 %		
	Pulse Reverberation	2.5 V		
	Amplifier frequency response 100 kHz to 50 MHz	4.0 % of screen height		
	Equivalent input noise	5.0 nV/√Hz		
	Linearity of vertical display	2.5 % of screen height		
Attenuation	Accuracy of attenuator reference to a nominal *1 V at f0*			
	0 dB to 60 dB	0.50 dB		
	60 dB to 90 dB	2.0 dB		
	Linearity of timebase x axis	1.0 % of screen width		

END