


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>0495</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Lambda Calibration Ltd</h3> <p>Issue No: 035 Issue date: 09 June 2011</p>	
	<p>Lambda Calibration Ltd Units 11-13 Chorley Central Business Park Stump Lane Chorley Lancashire PR6 0BL</p>	<p>Contact: Brenda Seeds Tel: +44 (0)845 241 1533 Fax: +44 (0)845 241 1544 E-Mail: mail@lambda-cal.co.uk Website: www.lambda-cal.co.uk</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Lambda Calibration Ltd Units 11-13 Chorley Central Business Park Stump Lane Chorley Lancashire PR6 0BL</p> <p>Local contact Brenda Seeds</p>	<p><u>Dimensional</u> <u>Electrical</u> <u>Pressure</u> <u>Torque</u> <u>Temperature</u></p>	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>At customers premises Brenda Seeds</p>	<p><u>Dimensional</u> <u>Electrical</u></p>	B



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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
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
LENGTH			NOTES	
Gauge blocks		Class (See Notes)	<p>Class C uncertainties apply to the measurement of length of gauges by comparison with grade K standards of length of a similar material. Class C uncertainties apply to new and used grade 0, 1 and 2 gauges to BS 4311-1:2007 and BS EN ISO 3650:1999.</p> <p>1. The uncertainty quoted is for the departure from flatness, straightness, parallelism or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration</p> <p>2. Single start, symmetrical thread forms only.</p> <p>3. Functional test of size using setting plugs calibrated with a CMC of 3.0 μm</p> <p>4. Features and associated parts of these gauges can be measured to the uncertainties given for equivalent items listed in this schedule.</p> <p>5. The uncertainty quoted is for the application of the calibration torque and does not take into account the characteristics of the device being calibrated.</p> <p>6. Calibrations may also be given in lbf.in and lbf.ft</p>	A
Inch (Steel and Carbide)	BS 4311-1:2007 0.010 to 0.4 in 0.4 in to 1 in Size 2 in Size 3 in Size 4 in	C 3.0 4.0 5.0 μ inches 6.0 7.0		A
Millimetre (Steel and Carbide)	BS EN ISO 3650:1999 0.5 to 10 10 to 25 Sizes 30, 40, 50 60, 70, 75 80, 90, 100	C 0.080 0.10 0.12 0.15 0.18		A
Gauge block accessories	As BS 4311-2:2009 0.1 to 12.5	0.30		A
Length gauges, flat and spherical ended (excluding Length Bars)	0 to 1000	1.0 + (5.0 x length m)		A
Plain plug gauges parallel, cylindrical setting standards and rollers.	1 to 50 diameter 50 to 100 100 to 300	0.80 1.0 1.5		A
Plain ring gauges (parallel)	2 to 10 diameter 10 to 50 50 to 100 100 to 300	1.0 0.80 1.0 2.5		A
Precision balls (steel, carbide, ceramic)	1 to 70 diameter	0.80		A
Feeler Gauges	BS 975:Part 1:1941 BS 957:Part 2:1969 0.025 to 1	1.0		A
Gap gauges (Plain parallel)	2 to 100 100 to 200 200 to 300	3.0 5.0 8.0		A
Paint thickness setting foils	0 to 8	1.0		A
Rule - steel	BS 4372:1968 0 to 1000	5.0 + (10 x length in m)		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
SCREW THREAD GAUGES				
Screw plug gauges (parallel) including check and setting plugs. See Note 2	1 to 100 diameter 100 to 150 diameter	3.0 on pitch 5.0 diameter		A
Screw plug gauges (taper) See Note 4	5 to 100 diameter 100 to 150 diameter	5.0 on pitch 8.0 diameter		
Screw ring gauges (parallel) See Note 2	1 to 75 diameter 75 to 150 diameter	5.0 on pitch 7.0 diameter		
Screw ring gauges (taper) See Note 2	5 to 100 diameter 100 to 150 diameter	7.0 on pitch 10.0 diameter		
Screw pitch Screw flank angle	0.2 to 8 0° to 52°	1.5 5.0 minutes of arc		
Screw thread adjustable caliper gauges (parallel) See Note 2	1 to 150	See note 3		A
Thread measuring cylinders	BS 5590:1978 and specials 0.1 to 5	0.50		A
Parallels	BS 906:1972 5 to 50 x 100 x 400	1.5 to 5.0		A
Vee blocks	BS 3731:1987 20 to 200	2.5 to 5.0		A
Receiver and position gauges, jigs, fixtures	0 to 600 x 600 x 600	See note 4		A
Thread vee groove jaw blades	0.6 (40 T.P.I.) to 6.0 (4.5 T.P.I)	3.0		A
ANGLE				
Squares				A
Blade type	BS 939:2007 50 to 300 300 to 600	3.0 5.0		A
Cylindrical	75 to 300 300 up to 600	3.0 4.0 On squareness see Note 1		A
Block	50 to 300 300 to 600	3.0 5.0		A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
ANGLE (cont'd)				
Right angle and box angle plates	BS 5535:1878 50 to 600	Squareness: 3.0 + 1.0 per 100 mm Parallelism: 1.0 + 1.0 per 100 mm See Note 1		A
Sine bars and tables	BS 3064:1978 0 to 500 length	Linear dimensions 1.0 + (10 x length in m) Overall performance 3.0 seconds of arc		A
Clinometers	0° to 360°	10 seconds of arc		A
Electronic indicating levels	0 minutes of arc to 8 minutes of arc	1.0 % of range Minimum 0.40 seconds of arc		A
Spirit levels	BS 3509:1962 and BS 958:1968 5 seconds of arc to 60 minutes of arc nominal sensitivity	Mean sensitivity 10% of nominal Minimum 0.50 seconds of arc		A
MEASURING INSTRUMENTS				
Micrometers				
Micrometers External	BS 870:2008 0 to 600	Heads: 2.0		A
Internal	BS 959:2008 0 to 900	Setting and extension rods		
Depth	BS 6468:2008 0 to 300	1.0 + (5.0 x length in m)		
Micrometer, 3 point bore	6 to 250	3.0 + (12 x length in m)		A
Micrometer Heads	BS 1734:1951 0 to 50	1.0		A
Height setting micrometer	0 to 300	Heads 1.5 between any two points Stepped column 2.5 Overall performance 3.0		A
Riser blocks for above	150 300	2.5 5.0		A



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MEASURING INSTRUMENTS				
Vernier				A
Caliper, Height and Depth gauges	BS 887:2008 0 to 1200 BS 1643:2008 0 to 1200 BS 6365:2008 0 to 600	Overall performance $10 + (30 \times \text{length in m})$		
Bevel protractors	As BS 1685:2008 0° to 360°	6.0 minutes of arc		A
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	1.0		A
Displacement transducers (linear)	0 to 100	0.60 to 1.6		A
Height gauges (digital and electronic)	0 to 1000	$2.0 + (10 \times \text{length in m})$		A
FORM				
Surface plates				
Granite and Cast Iron	BS 817:2008 160 x 100 to 1600 x 1000	$1.5 + (1.0 \times \text{diagonal in m})$		A,B
ELECTRICAL MEASUREMENT				
RESISTANCE	0 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 k Ω 2 k Ω to 20 k Ω 20 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 200 M Ω 200 M Ω to 2 G Ω	23 ppm + 21 $\mu\Omega$ 15 ppm + 68 $\mu\Omega$ 12 ppm + 700 $\mu\Omega$ 12 ppm + 7 m Ω 14 ppm + 70 m Ω 26 ppm + 1.5 Ω 46 ppm + 4.0 Ω 360 ppm + 10 k Ω 0.36 % + 900 k Ω	Note Published uncertainties apply for an environment of 18°C to 28°C . Measurements can take place outside these limits but at increased uncertainties.	A & B
AC RESISTANCE	0.5 Ω to 2 k Ω 50 Hz	0.65 %		A & B



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ELECTRICAL MEASUREMENT (cont'd)				
DC VOLTS	0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1050 V 1 kV to 10 kV	10.4 ppm + 62 nV 7.5 ppm + 482 nV 7.4 ppm + 2.0 μ V 12 ppm + 86 μ V 12 ppm + 256 μ V 0.050 %		A & B
DC CURRENT	0 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 1 A 1 A to 10 A 10 A to 1 kA	120 ppm + 0.50 nA 117 ppm + 5.0 nA 117 ppm + 48 nA 118 ppm + 1.2 μ A 234 ppm + 11 μ A 168 ppm + 13 μ A 356 ppm + 1.3 mA		A & B
DC CURRENT Generation only	3.2 A to 105 A 105 A to 200 A 16 A to 160 A 160 A to 525 A 525 A to 1 KA	0.070 % + 11 mA 0.070 % + 50 mA 0.070 % + 7.0 mA 0.070 % +55 mA 0.070 % + 250 mA	Suitable for Clamp Meters Using 10 turn coil Using 10 turn coil Using 50 turn coil Using 50 turn coil Using 50 turn coil	A & B
AC VOLTAGE	1 μ V to 200 mV 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 200 mV to 2 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 2 V to 20 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 20 V to 200 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 30 kHz to 100 kHz 200 V to 1050 V 20 Hz to 40 Hz 40 Hz to 10 kHz 10 kHz to 30 kHz 1 kV to 10 kV @ 50 Hz	300 ppm + 14 μ V 281 ppm + 2.0 μ V 363 ppm + 5.0 μ V 720 ppm + 20 μ V 210 ppm + 120 μ V 164 ppm + 11 μ V 240 ppm + 30 μ V 496 ppm + 100 μ V 210 ppm + 1.2 mV 164 ppm + 0.10 mV 239 ppm + 0.30 mV 496 ppm + 1.0 mV 212 ppm + 13 mV 168 ppm + 1.6 mV 240 ppm + 4.0 mV 525 ppm + 11 mV 212 ppm + 71 mV 168 ppm + 51 mV 340 ppm + 152 mV 2.2 %		A & B A & B A & B



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ELECTRICAL MEASUREMENT (cont'd)				
AC CURRENT	1 nA to 200 μ A 10 Hz to 1 kHz 1 kHz to 5 kHz	378 ppm + 21 nA 693 ppm + 21 nA		A & B
	200 μ A to 2 mA 10 Hz to 1 kHz 1 kHz to 5 kHz	378 ppm + 210 nA 693 ppm + 210 nA		
	2 mA to 20 mA 10 Hz to 1 kHz 1 kHz to 5 kHz	361 ppm + 2.1 μ A 693 ppm + 2.1 μ A		
	20 mA to 200 mA 10 Hz to 1 kHz 1 kHz to 5 kHz	378 ppm + 21 μ A 693 ppm + 21 μ A		
	200 mA to 1 A 10 Hz to 1 kHz 40 Hz to 3 kHz 3 kHz to 5 kHz	755 ppm + 209 μ A 0.12 % 0.15 %		
	1 A to 10 A 40 Hz to 3 kHz 3 kHz to 5 kHz	0.16 % 0.27 %		
	10A to 50A 50 Hz	0.37%		
AC CURRENT Generation only	3.2 A to 32 A (10 to 100 Hz) 32 A to 200 A (10 to 100 Hz) 3.2 A to 32 A (100 to 440 Hz) 32 A to 200 A (100 to 440 Hz) 16 A to 160 A (10 to 100 Hz) 160 A to 1 kA (10 to 100 Hz)	0.33 % + 6.0 mA 0.33 % + 104 mA 0.93 % + 31 mA 0.81 % + 288 mA 0.33 % + 323 mA 0.33 % + 519 mA	Suitable for Clamp Meters Using 10 turn coil Using 10 turn coil Using 10 turn coil Using 50 turn coil Using 50 turn coil	A & B
Phase angle	10 A to 50 A @ 50 Hz 0 ° to 360 °	0.38 % 1.0 °		



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<p>ELECTRICAL SIMULATION OF THERMOCOUPLES</p> <p>Type: B C E J K K L N R S T T</p>	<p>+500 °C to +1820 °C + 0 °C to +2320 °C -250 °C to +1000 °C -210 °C to +1200 °C -200 °C to -250 °C -200 °C to +1372 °C -200 °C to +900 °C -200 °C to +1300 °C + 0 °C to +1767 °C + 0 °C to +1767 °C -250 °C to -200 °C -200 °C to +400 °C</p>	<p>0.56 °C 0.42 °C 0.46 °C 0.27 °C 0.58 °C 0.29 °C 0.28 °C 0.34 °C 0.53 °C 0.50 °C 0.60 °C 0.29 °C</p>		<p>A & B</p>
<p>ELECTRICAL MEASUREMENT (cont'd)</p> <p>CAPACITANCE Generation only</p> <p>BANDWIDTH</p> <p>FREQUENCY</p> <p>Generation only</p> <p>Rise time</p>	<p>0 to 350 Hz 0.5 nF to 4 nF 4 nF to 40 nF 40 nF to 400 nF 400 nF to 4 µF 4 µF to 40 µF 40 µF to 400 µF 400 µF to 4 mF 4 mF to 40 mF</p> <p>350 Hz to 1.5 Hz 0.5 nF to 4 nF 4 nF to 40 nF 40 nF to 400 nF 400 nF to 4 µF 4 µF to 40 µF 40 µF to 400 µF 400 µF to 4 mF 4 mF to 40 mF</p> <p>3 dB point with respect to set point 10 Hz to 50 kHz 50 kHz to 100 MHz 100 MHz to 250 MHz</p> <p>2 Hz to 1.3 GHz 1.3 GHz to 20.1 GHz</p> <p>0.2 Hz to 250 MHz</p> <p>Nominal 1 ns 100 mV to 500 mV pulse rise and fall</p> <p>Nominal 100 ns 5 V to 50 V pulse rise and fall</p>	<p>0.35 % + 18 pF 0.35 % + 35 pF 0.35 % + 185 pF 0.47 % + 2.0 nF 0.57 % + 19 nF 0.58 % + 185 nF 0.58 % + 2.0 µF 1.16 % + 69 µF</p> <p>0.70 % +35 pF 0.70 % + 69 pF 0.70 % + 370 pF 0.93 % + 3.0 nF 1.16 % + 37 nF 1.16 % + 370 nF 1.16 % + 4.0 µF 2.31 % +139 µF</p> <p>0.60 % 2.4 % 5.2 %</p> <p>2.0 in 10⁹ 5.0 in 10⁹</p> <p>0.29 ppm</p> <p>90 ps</p> <p>9 ns</p>	<p>Suitable for the testing of capacitance measuring devices</p> <p>Appropriate for calibration of oscilloscopes</p> <p>May be expressed as time (1/f) for repetitive measurements</p> <p>May be expressed as time (1/f) for repetitive measurements</p> <p>In to 50 Ω</p> <p>In to 1 M Ω</p>	<p>A & B</p> <p>A & B</p> <p>A</p> <p>A & B</p>



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TIME Electronically Triggered				
Interval/Period Average	25 ns to 10 s	2.0 in 10 ⁹ + (100 ns/No of periods)	Actual uncertainties quoted on certificate will include an allowance for the characteristics of the measured signal	A & B
Time Interval (A-A Event)	100 ns to 10 ⁹ s	2.0 in 10 ⁹ + 100 ns		A & B
Time Interval (A-B Event)	100 ns to 10 ⁹ s	2.0 in 10 ⁹ + 100 ns		
Time Interval	0.1 ms to 10 s	1.8 %	Appropriate for the calibration of RCD testers	A & B
TIME Mechanically Triggered	over 1 second	50 ms		A & B
POWER				
At unity power factor ± 1	10 µW to 10.5 kW @ 40 Hz to 1 kHz	0.20 %		
	4 kW to 21 kW @ 50 Hz	0.47 %		
DC power	10 µW to 10.5 kW	0.060 %		
TORQUE				
Hand torque tools (including drivers)	To BS EN ISO 6789:2003 0.2 N.m to 1000 N.m	1.5 % See Notes 5 & 6		A
PRESSURE				
<u>Hydraulic pressure (gauge)</u>				
Calibration of pressure indicating instruments and gauges	500 kPa to 7 MPa 7 MPa to 110 MPa 110 MPa to 400 MPa	0.011 % 0.0092 % 0.024 %	Calibration of devices with an electrical output may be undertaken	A
Calibration of Piezoelectric pressure transducers at quasi-static pressures	500 kPa to 7 MPa 10 MPa to 400 MPa	0.35 % 0.35 %	Calibration of devices with a charge output may be undertaken	A
<u>Gas pressure (gauge)</u>				
Calibration of pressure indicating instruments and gauges	-95 kPa to -20 kPa -20 kPa to -7 kPa -7 kPa to -3 kPa -3 kPa to -1.5 kPa -1.5 kPa to -160 Pa -160 Pa to -24 Pa -24 Pa to 24 Pa 24 Pa to 160 Pa 160 Pa to 1.5 kPa 1.5 kPa to 3 kPa 3 kPa to 7 kPa 7 kPa to 2 MPa 2 MPa to 6 MPa 6 MPa to 25 MPa	15 Pa 0.010 % + 3.7 Pa 0.011 % + 0.90 Pa 0.011 % + 0.60 Pa 0.025 % + 0.35 Pa 0.17 % + 0.090 Pa 0.17 % + 0.045 Pa 0.17 % + 0.090 Pa 0.025 % + 0.35 Pa 0.011 % + 0.60 Pa 0.011 % + 0.90 Pa 0.0085 % 0.013 % + 1.2 kPa 0.012 % + 4.0 kPa	Absolute pressure calibrations can be undertaken using associated barometric pressure measurement correction. The uncertainties quoted will be increased by 12 Pa.	A



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<u>Gas pressure (absolute)</u>				
Calibration of pressure indicating instruments and gauges	0.1 Pa to 1 Pa 1 Pa to 10 Pa 10 Pa to 100 Pa 100 Pa to 1 kPa 1 kPa to 3.5 kPa 3.5 kPa to 131 kPa 131 kPa to 200 kPa	1.0 % + 0.10 Pa 1.0 % + 0.30 Pa 1.0 % + 1.8 Pa 15 Pa 20 Pa 12 Pa 0.0085 % + 12 Pa		A
Temperature				
Radiation thermometers (pyrometers)	20 °C to 100 °C 101 °C to 200 °C 201 °C to 300 °C 301 °C to 400 °C 400 °C to 500 °C	0.80 °C 1.2 °C 1.6 °C 2.1 °C 2.6 °C		A
Resistance Thermometers (4 Wire)	- 35 °C to 0 °C 0 °C (Ice Point) 20 °C (ambient) 0 °C to 50 °C 50 °C to 100 °C 100 °C to 200 °C 200 °C to 250 °C 250 °C to 425 °C 425 °C to 660 °C	0.045 °C 0.024 °C 0.024 °C 0.030 °C 0.031 °C 0.037 °C 0.055 °C 0.075 °C 0.10 °C	3 and 2 wire PRT can also be calibrated but will have an increased uncertainty	A
Temperature Indicators and/or recorders with temperature sensors	- 35 °C to 0 °C 0 °C (Ice Point) 20 °C (ambient) 0 °C to 100 °C 100 °C to 200 °C 200 °C to 250 °C 250 °C to 425 °C 425 °C to 660 °C	0.045 °C 0.022 °C 0.022 °C 0.030 °C 0.034 °C 0.052 °C 0.070 °C 0.10 °C		A
Block Calibrators	- 80 °C to 0 °C 0 °C to 100 °C 100 °C to 250 °C 250 °C to 425 °C 425 °C to 660 °C 660 °C to 1100 °C 1100 °C to 1200 °C	0.040 °C 0.035 °C 0.040 °C 0.060 °C 0.090 °C 1.2 °C 2.1 °C		A
Noble Metal Thermocouples (Thermocouples with cold junctions)	20 °C to 100 °C 100 °C to 250 °C 250 °C to 420 °C 420 °C to 660 °C 660 °C to 1100 °C 1100 °C to 1200 °C	1.0 °C 0.80 °C 0.70 °C 0.60 °C 1.4 °C 2.1 °C	Thermocouples without a cold junction will have an increased uncertainty	A
Base metal Thermocouples	- 35 °C to 250 °C 250 °C to 660 °C 660 °C to 1100 °C 1100 °C to 1200 °C	0.26 °C 0.28 °C 1.4 °C 2.1 °C		A
Extension or compensating cable	- 25 °C to 200 °C	0.26 °C		A



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