


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p style="text-align: center;"><b>Accredited to ISO/IEC 17025:2005</b></p>	<h3>PowerKut Limited</h3> <p><b>Issue No: 029    Issue date: 19 August 2011</b></p>	
	<p>15 Paragon Way Bayton Road Ind. Est. (Zone 4a), Exhall Coventry West Midlands CV7 9QS</p>	<p><b>Contact: Mr R G Perkins</b> Tel: +44 (0)24 7664 4661 Fax: +44 (0)24 7664 4680 E-Mail: sales@powerkut.co.uk Website: www.powerkut.co.uk</p>
<p><b>Calibration performed by the Organisations at the locations specified below</b></p>		

### Locations covered by the organisation and their relevant activities

**Laboratory locations:**

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><b>Address</b> 15 Paragon Way Bayton Road Ind. Est. (Zone 4a), Exhall Coventry West Midlands CV7 9QS</td> <td style="width: 50%; border: none;"><b>Local contact</b> Mr R G Perkins  Mr G Roberts</td> </tr> </table>	<b>Address</b> 15 Paragon Way Bayton Road Ind. Est. (Zone 4a), Exhall Coventry West Midlands CV7 9QS	<b>Local contact</b> Mr R G Perkins  Mr G Roberts	<p>Dimensional</p> <p>Electrical</p>	A
<b>Address</b> 15 Paragon Way Bayton Road Ind. Est. (Zone 4a), Exhall Coventry West Midlands CV7 9QS	<b>Local contact</b> Mr R G Perkins  Mr G Roberts			

**Site activities performed away from the locations listed above:**

Location details	Activity	Location code		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">At customers premises</td> <td style="width: 50%; border: none;">Mr R G Perkins</td> </tr> </table>	At customers premises	Mr R G Perkins	<p>Dimensional</p>	B
At customers premises	Mr R G Perkins			



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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						
DIMENSIONAL						
LENGTH						
Gauge blocks		Class (see note 1)	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 & 2 gauges to BS 4311-1:2007 and BS EN ISO 3650:1999	A		
Inch (Steel and tungsten carbide)	As BS 4311-1:2007 0.01 inch to 0.4 inch. 0.4 inch to 1 inch 2 inch 3 inch 4 inch	C 3.0 4.0 5.0 6.0 7.0 $\mu$ inches				
Millimetre (Steel and tungsten carbide)	As BS EN ISO 3650:1999 0.50 to 10 10 to 25 30, 40, 50 60, 70, 75 80, 90, 100	C 0.080 0.10 0.12 0.15 0.18				
Plain plug gauges (parallel), cylindrical setting standards and rollers	0 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 300 diameter	0.50 0.80 1.0 1.2 1.6 on diameter				
Plain plug gauges (taper) including check plugs						
Taper parallel to 1 in 8 on diameter	6 to 50 diameter 50 up to 100 diameter 100 up to 200 diameter	3.0 4.0 5.0 on diameter				
Taper 1 in 8 to 1 in 3 on diameter	6 to 50 diameter 50 to 100 diameter 100 to 200 diameter	5.0 6.0 7.0				
Plain ring gauges (parallel) and setting standards	1 to 10 diameter 10 to 25 diameter 25 to 50 diameter 50 to 100 diameter 100 150 diameter 150 to 250 diameter	1.0 0.80 1.0 1.5 2.0 3.0 on diameter				
					NOTES 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. 2 All calibrations can be given in inch units. 3. Single start, symmetrical thread forms only. 4. Single and multi-start symmetrical and asymmetrical thread forms 5. Includes use of check plugs for screw rings (taper) from 3 mm to 14 mm diameter	A



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RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
DIMENSIONAL				
LENGTH (cont'd)				
Plain ring gauges (taper)				A
Taper parallel to 1 in 8 on diameter	2 to 6 diameter 6 to 100 diameter 100 to 200 diameter	6.0 8.0 10 on diameter	6. Functional test of size using setting plugs calibrated with a CMC of 2.5 $\mu$ m	A
Taper 1 in 8 to 1 in 3 on diameter	2 to 6 diameter 6 to 100 diameter 100 to 200 diameter	8.0 10 12	7. Features and associated parts of these gauges can be measured to the uncertainties given for equivalent items listed in this schedule.	A
Length gauges, flat and spherical ended	0 to 2000	1.0 + (8.0 x length in m)		A
Plain gap gauges (parallel)	0.5 to 100 100 to 200 200 to 300	3.0 5.0 8.0		A
Screw plug gauges (parallel) including check and setting plugs See Note 4	1 to 100 diameter 100 to 150 diameter 150 to 300 diameter	2.5 on 5.0 pitch 8.0 diameter		A
Screw plug gauges (taper) including check plugs but excluding API gauges See Note 3	5 to 100 diameter	5.0		A
Screw ring gauges (parallel) See Note 4	3 to 14 diameter	See note 5		A
Screw ring gauges (taper) - Ground Threads only and excluding API gauges See Note 3	6 to 75 diameter 75 to 150 diameter 150 to 250 diameter	5.0 on 7.0 pitch 10 diameter		A
Screw pitch Screw flank angle	0.2 to 8 0° to 52°	1.5 5.0 minutes of arc		A
Screw thread adjustable caliper gauges (parallel) See Note 6	1 to 100 diameter	See note 6		A
Thread measuring cylinders	BS 5590:1978 and specials 0.1 to 5	0.50		A
Thread vee groove jaw blades	0.6 (40 T.P.I.) to 6.0 (4.5 T.P.I)	3.0		A



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<b>RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED</b>				
<b>DIMENSIONAL</b>				
<b>LENGTH (cont'd)</b>				
Thread measuring vee pieces (prisms)	NPL Schedule MOY/SCMI/60 0 to 4.5	0.50		A
Parallels	BS 906:Part 1:1972 5 to 50 x 100 x 400	1.5 up to 5.0		A
Vee blocks	BS 3731:1987 20 to 150	2.5 up to 5.0		A
Receiver, position and profile gauges, jigs and fixtures. (see note 7)	Maximum dimensions 0 to 1000 x 750 x 500	Minimum per coordinate: 3.0 + (10 x length in m)		A
Orifice Plates	BS EN ISO 5167-1:2003	4.0 + (6.0 x length in m)		A
<b>ANGLE</b>				
Polygons	NPL Schedules MOY/SCMI/83 and 87 up to 18 sides	2.0 seconds of arc		A
Squares Blade type	BS 939:2007 50 to 300 300 to 600 600 to 900 900 to 1200 1200 to 1500	3.0 5.0 8.0 12 15		A
Cylindrical	75 to 300 300 to 600 600 to 900	2.0 On squareness 4.0 See Note 3 8.0		
Block	50 to 350 300 to 600	3.0 5.0		
Angle plates and box angle plates	BS 5535:1978 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	Linear dimensions: 1.0 + (10 x length in m) Overall performance: 3.0 seconds of arc		A



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<b>DIMENSIONAL</b>				
<b>LENGTH (cont'd)</b>				
Sine centres	0 to 500 length or between centres	Linear dimensions: 1.0 + (10 x length in m) Overall performance: 5.0 seconds of arc		A
Compound sine tables	With tables or equivalent 0 to 500 length			A
Spirit levels	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
Clinometers	0° to 360°	10 seconds of arc		A
<b>FORM</b>				
Surface plates Granite and Cast iron	BS 817:2008 160 x 100 to 5000 x 4000	1.5 + (0.80 x diagonal in m) See Note 1		A,B
Straightedges Cast iron, Steel and Granite	BS 5204:Part 1:1975 and BS 5204:Part 2:1977 0 to 2000	1.0 + (2.0 x length in m) See Note 1		A
Steel balls	1 to 50 diameter	0.80 on diameter		A
Surface texture (excluding measurement standards and roughness comparison specimens)	As BS 1134:Part 1:1988 Ra 0.02 µm to 80 µm	10 % of measured value		A
<b>MEASURING INSTRUMENTS AND MACHINES</b>				
Micrometers External	As BS 870:2008 0 to 1500	Heads: 2.0		A
Internal	As BS 959:2008 0 to 900	Setting and extension rods		
Depth	As BS 6468:2008 0 to 300	1.0 + (8.0 x length in m)		
Indicating micrometers	0 to 300	Indicators 0.5 Overall performance 1.5		A
Micrometer heads	BS 1734:1951 0 to 50	1.0		A



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<b>MEASURING INSTRUMENTS AND MACHINES (cont'd)</b>				
Bore micrometers (three point)	3 to 150 diameter 150 to 250	Overall performance 5.0 Overall performance 8.0		A
Bench micrometer	NPL MOY/SCMI 22 0 to 100	Overall performance 2.0		A
Vernier caliper, height and depth gauges	BS 887:2008 0 to 2000 BS 1643:2008 0 to 1000 BS 6365:2008 0 to 600	Overall performance 10 + (30 x length in m)		A
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50	1.0		A
Height setting micrometer	0 to 300	Heads 1.0 Stepped column 1.6 Overall performance 2.0		A
Riser blocks for above	150 300	1.0 2.0		A
Electronic height gauges	0 to 1500	1.0 + (5.0 x length in m)		A,B
Bench centres	0 to 1 m between centres	Linear dimensions 1.0 + (10 x length in m)		A
Profile projectors	10 to 100 magnifications Linear 0 to 300 Angular 0° to 360°	125 at the screen 5.0 linear 3.0 min. of arc angle		A,B
Comparators (external)	BS 1054:1975 250 to 10 000 magnifications	1.0 % of range Minimum 0.20		A,B
Measuring Machines (Horizontal)	0 to 1000	0.30 + (4.0 x length in m)		A,B
Measuring Machines (Vertical)	0 to 1000	1.0 + (5.0 x length in m)		A,B
Thread diameter measuring	NPL Schedules MOY/SCM1/9 and MOY/SCM1/12 0 to 300 capacity	Overall performance 1.5		A,B
Internal diameter measuring	NPL MOY/SCM1/17 0 to 150	Overall performance on plain (parallel) diameters 3.0		A,B
Plain taper diameter measuring	NPL MOY/SCM1/148 0 to 100	Overall performance on diameter 1.5		A,B



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<b>MEASURING INSTRUMENTS AND MACHINES (cont'd)</b>				
Screw pitch measuring	NPL MOY/SCM1/16, 19 and 78 0 to 200 diameter 0 to 450 between centres	Overall performance 1.2		A,B
Dividing heads		Linear dimensions		A
Rotary tables	0 to 450 capacity	1.0 + (10 x length in m)		A
Inclinable tables	0 to 1000 capacity	Overall performance		A
Inclinable rotary tables	0 to 450 capacity	3.0 seconds of arc		A
Electronic indicating levels	0 to 20 minutes of arc	1.0 % of range Minimum 0.50 seconds of arc		A
Bevel protractors	As BS 1685:2008 0° to 360°	6.0 minutes of arc		A
Steel rules	0 to 2 m	15 + (20 x length in m)		A
Scales, precision linear	0 to 300	8.0		A
Displacement transducers	0 to 20	1.0 % of range Minimum 0.20		A
Toolmakers Microscopes	As MOY/SCMI/2 0 to 150 x 150	125 at the screen		A,B
Feeler Gauges	As BS 957:2008 0.025 to 1	1.0		A
Radius Gauges	0 to 300 mm	7.0		A
<b>ELECTRICAL</b>				
DC Voltage				
Generation	0 V to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	16 ppm + 6.0 $\mu$ V 8.0 ppm + 12 $\mu$ V 9.0 ppm + 0.12 mV 9.0 ppm + 1.2 mV 10 ppm + 6.0 mV		A
	1 kV to 6 kV	0.60 %		
Measurement	0 V to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	12 ppm + 1.3 $\mu$ V 8.0 ppm + 1.2 $\mu$ V 6.0 ppm + 1.2 $\mu$ V 16 ppm + 1.7 $\mu$ V 17 ppm + 12 $\mu$ V		A



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DC Voltage				
Measurement (cont'd)	1 kV to 10 kV 10 kV to 50 kV	0.80 % 1.4 %		
DC Current				
Generation	10 $\mu$ A to 100 $\mu$ A 100 $\mu$ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 2 A	52 ppm + 5.0 nA 39 ppm + 0.050 $\mu$ A 33 ppm + 0.50 $\mu$ A 30 ppm + 5.0 $\mu$ A 120 ppm + 71 $\mu$ A		A
	10 A to 100 A 100 A to 550 A	0.15 % 0.18 %	For the calibration of clampmeters only	A
Measurement	10 $\mu$ A to 100 $\mu$ A 100 $\mu$ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 2 A	93 ppm + 2.4 nA 76 ppm + 0.024 $\mu$ A 43 ppm + 0.24 $\mu$ A 61 ppm + 2.4 $\mu$ A 110 ppm + 47 $\mu$ A		A
AC Voltage				
Generation	10 mV to 100 mV 30 Hz to 1 kHz 1 kHz to 10 kHz	0.018 % + 37 $\mu$ V 0.015 % + 26 $\mu$ V		A
	100 mV to 1 V 30 Hz to 1 kHz 1 kHz to 10 kHz	0.012 % + 0.14 mV 0.0060 % + 0.12 mV		
	1 V to 10 V 30 Hz to 1 kHz 1 kHz to 10 kHz	0.027 % + 1.4 mV 0.022 % + 1.2 mV		
	10 V to 100 V 30 Hz to 1 kHz 1 kHz to 10 kHz	0.0090 % + 14 mV 0.0070 % + 12 mV		
	100 V to 1000 V 55 Hz to 1 kHz 1 kHz to 10 kHz	0.011 % + 70 mV 0.015 % + 59 mV		
	50 Hz 1 kV to 10 kV 10 kV to 30 kV	1.7 % 2.3 %		
Measurement	10 mV to 100 mV 20 Hz to 1 kHz 1 kHz to 10 kHz	0.043 % + 0.20 $\mu$ V 0.021 % + 0.20 $\mu$ V		A
	100 mV to 1 V 20 Hz to 1 kHz 1 kHz to 10 kHz	0.034 % + 2.0 $\mu$ V 0.021 % + 2.0 $\mu$ V		



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AC Voltage Measurement (cont'd)	<i>1 V to 10 V</i> 20 Hz to 1 kHz 1 kHz to 10 kHz  <i>10 V to 100 V</i> 20 Hz to 1 kHz 1 kHz to 10 kHz  <i>100 V to 1000 V</i> 50 Hz to 1 kHz 1 kHz to 10 kHz  <i>50 Hz</i> 1 kV to 10 kV 10 kV to 50 kV	0.020 % + 20 $\mu$ V 0.22 % + 20 $\mu$ V  0.021 % + 120 $\mu$ V 0.030 % + 120 $\mu$ V  0.046 % + 1.2 mV 0.050 % + 1.2 mV  1.7 % 2.7 %		
AC Current Generation	<i>10 <math>\mu</math>A to 100 <math>\mu</math>A</i> 10 Hz to 1 kHz 1 kHz to 5 kHz  <i>100 <math>\mu</math>A to 1 mA</i> 10 Hz to 1 kHz 1 kHz to 5 kHz  <i>1 mA to 10 mA</i> 10 Hz to 1 kHz 1 kHz to 5 kHz  <i>10 mA to 100 mA</i> 10 Hz to 1 kHz 1 kHz to 5 kHz  <i>100 mA to 2 A</i> 10 Hz to 1 kHz 1 kHz to 5 kHz  <i>10 A to 100 A</i> 45 Hz to 65 Hz 65 Hz to 440 Hz  <i>100 A to 550 A</i> 45 Hz to 65 Hz 65 Hz to 440 Hz	0.20 % + 0.024 $\mu$ A 0.10 % + 0.040 $\mu$ A  0.19 % + 0.24 $\mu$ A 0.035 % + 0.24 $\mu$ A  0.19 % + 2.4 $\mu$ A 0.04 % + 2.4 $\mu$ A  0.19 % + 24 $\mu$ A 0.032 % + 24 $\mu$ A  0.20 % + 0.24 mA 0.27 % + 0.37 mA  0.25 % 0.45 %  0.30 % 0.50 %	For the calibration of clampmeters only  For the calibration of clampmeters only	A
Measurement	<i>10 <math>\mu</math>A to 100 <math>\mu</math>A</i> 50 Hz to 1 kHz 1 kHz to 5 kHz  <i>100 <math>\mu</math>A to 1 mA</i> 50 Hz to 1 kHz 1 kHz to 5 kHz	0.083 % + 0.012 $\mu$ A 0.11 % + 0.012 $\mu$ A  0.029 % + 0.12 $\mu$ A 0.066 % + 0.12 $\mu$ A		A



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AC Current Measurement (cont'd)	<i>1 mA to 10 mA</i> 50 Hz to 1 kHz 1 kHz to 5 kHz  <i>10 mA to 100 mA</i> 50 Hz to 1 kHz 1 kHz to 5 kHz  <i>100 mA to 2 A</i> 50 Hz to 1 kHz 1 kHz to 5 kHz	0.026 % + 1.2 $\mu$ A 0.068 % + 1.2 $\mu$ A  0.033 % + 12 $\mu$ A 0.066 % + 12 $\mu$ A  0.053 % + 0.47 mA 0.22 % + 1.2 mA		
DC Resistance Generation	10 $\Omega$ 100 $\Omega$ 1 k $\Omega$ 10 k $\Omega$ 100 k $\Omega$ 1 M $\Omega$ 10 M $\Omega$ 100 M $\Omega$	38 ppm 30 ppm 31 ppm 13 ppm 17 ppm 71 ppm 210 ppm 270 ppm		A
Measurement	0 $\Omega$ to 1 $\Omega$ 1 $\Omega$ to 10 $\Omega$ 10 $\Omega$ to 100 $\Omega$ 100 $\Omega$ to 1 k $\Omega$ 1 k $\Omega$ to 10 k $\Omega$ 10 k $\Omega$ to 100 k $\Omega$ 100 k $\Omega$ to 1 M $\Omega$ 1 M $\Omega$ to 10 M $\Omega$ 10 M $\Omega$ to 100 M $\Omega$ 100 M $\Omega$ to 1 G $\Omega$	18 ppm + 26 $\mu\Omega$ 28 ppm + 23 $\mu\Omega$ 12 ppm + 23 $\mu\Omega$ 14 ppm 10 ppm 13 ppm 23 ppm 110 ppm 160 ppm 400 ppm		A
AC Resistance	<i>100 m<math>\Omega</math> to 1 <math>\Omega</math></i> 50 Hz to 1 kHz	0.055 %		A
Frequency	1 Hz to 1.35 GHz	4 in $10^8$		A
Temperature indicators, calibration by electrical simulation				A
Base metal thermocouple	- 200 $^{\circ}$ C to + 1600 $^{\circ}$ C	0.25 $^{\circ}$ C	excluding cold junction compensation	
Noble metal thermocouple	- 200 $^{\circ}$ C to + 1760 $^{\circ}$ C	0.25 $^{\circ}$ C	excluding cold junction compensation	
Cold junction compensation	At ambient temperature of 20 $^{\circ}$ C	0.20 $^{\circ}$ C		
Resistance sensors	- 200 $^{\circ}$ C to 0 $^{\circ}$ C 0 $^{\circ}$ C to 850 $^{\circ}$ C	0.15 $^{\circ}$ C 0.050 $^{\circ}$ C		



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AC Resistance				
Time Interval (cont'd)	0.05 s to 60 min	0.050 s		
Tachometers (Optical)	100 rpm to 50000 rpm	2.0 rpm		
END				