

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0126</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>Keysight Technologies UK Ltd</p> <p>Issue No: 039 Issue date: 07 March 2017</p>	
	<p>The Calibration House Halesfield 7 Telford Shropshire TF7 4QL</p>	<p>Contact: Mr R A Jones Tel: +44 (0) 1952 681 500 Fax: +44 (0) 118 927 6855 E-Mail: robin.jones@keysight.com Website: www.keysight.com/find/UK-IrelandOneSource</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 The Calibration House Halesfield 7 Telford Shropshire TF7 4QL</p> <p>Local contact Mr R A Jones</p>	Electrical and Dimensional calibrations	P

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Customers' sites or premises</p> <p>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</p> <p>Local contact Mr R A Jones</p>	Dimensional	S



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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 RESISTANCE				P
Specific values	1 Ω 10 Ω 100 Ω 1.0 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ	3.9 ppm 2.4 ppm 1.2 ppm 1.3 ppm 1.5 ppm 2.2 ppm 2.2 ppm 6.1 ppm		
Other Values	0 Ω to 0.5 Ω 0.5 Ω to 5 Ω 5 Ω to 50 Ω 50 Ω to 500 Ω 500 Ω to 5 kΩ 5 kΩ to 50 kΩ 50 kΩ to 500 kΩ 500 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 10 GΩ 10 GΩ to 100 GΩ 100 GΩ to 1 TΩ	7.5 ppm + 0.25 μΩ 7.4 ppm 5.4 ppm 5.4 ppm 5.4 ppm 5.4 ppm 5.4 ppm 5.4 ppm 7.2 ppm 410 ppm 0.18 % 0.23 % 0.45 %		
DC VOLTAGE	0 V to 11 V 11 V to 110 V 110 V to 1100 V 1.0 kV to 70 kV	2.8 ppm + 0.30 μV 2.8 ppm 3.2 ppm 0.14 %		P
DC CURRENT	100 nA to 10 μA 10 μA to 2 A 2 A to 100 A 10 A to 100 A 100 A to 2500 A	13 ppm + 5.0 pA 10.0 ppm 60 ppm 0.08 % + 0.023 A 0.26 % + 0.60 A	For the calibration of clamp-on ammeters	P
AC VOLTAGE				P
Generation	1 mV to 3 mV 10 Hz to 30 kHz 30 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1.0 MHz 3 mV to 10 mV 10 Hz to 100 Hz 100 Hz to 30 kHz 30 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1.0 MHz	0.15 % 0.20 % 0.35 % 0.75 % 0.050 % 0.032 % 0.075 % 0.20 % 0.50 %		



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AC VOLTAGE (cont'd)				P
Generation (cont'd)	10 mV to 30 mV 10 Hz to 100 Hz 100 Hz to 30 kHz 30 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1.0 MHz	0.045 % 0.055 % 0.16 % 0.20 % 0.40 %		
	30 mV to 100 mV 10 Hz to 100 Hz 100 Hz to 30 kHz 30 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1.0 MHz	0.030 % 0.017 % 0.040 % 0.10 % 0.25 %		
	100 mV to 300 mV 10 Hz to 30 kHz 30 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1.0 MHz	0.0060 % 0.020 % 0.048 % 0.12 %		
	300 mV to 30 V 10 Hz to 30 kHz 30 kHz to 200 kHz 200 kHz to 500 kHz 500 kHz to 1.0 MHz	0.0050 % 0.010 % 0.040 % 0.11 %		
	30 V to 100 V 10 Hz to 30 kHz 30 kHz to 200 kHz	0.0043 % 0.011 %		
	100 V to 300 V 10 Hz to 30 kHz 30 kHz to 200 kHz	0.0074 % 0.020 %		
	300 V to 1100 V 10 Hz to 30 kHz 30 kHz to 200 kHz	0.013 % 0.020 %		
Measurement				
Specific Values	100 mV 1 kHz and 30 kHz 60 kHz and 100 kHz 500 kHz 1 MHz	0.0050 % 0.010 % 0.040 % 0.10 %		
	300 mV 10 Hz 40 Hz 1 kHz and 30 kHz 50 kHz and 100 kHz 500 kHz 1 MHz	0.0035 % 0.0030 % 0.0035 % 0.010 % 0.040 % 0.10 %		



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AC VOLTAGE (cont'd) Measurement (cont'd) Specific Values (cont'd)				P
	1 V 10 Hz 40 Hz, 1 kHz and 30 kHz 60 kHz and 100 kHz 500 kHz 1 MHz	0.0035 % 0.0030 % 0.010 % 0.040 % 0.10 %		
	3 V 10 Hz 40 Hz, 1 kHz and 30 kHz 50 kHz and 100 kHz 500 kHz 1 MHz	0.0037 % 0.0030 % 0.010 % 0.040 % 0.10 %		
	10 V 10 Hz 40 Hz 1 kHz and 30 kHz 60 kHz and 100 kHz 500 kHz 1 MHz	0.0035 % 0.0033 % 0.0030 % 0.010 % 0.040 % 0.10 %		
	30 V 10 Hz 40 Hz 1 kHz and 30 kHz 50 kHz and 100 kHz 500 kHz 1 MHz	0.0035 % 0.0037 % 0.0032 % 0.010 % 0.040 % 0.10 %		
	100 V 10 Hz 40 Hz 1 kHz and 30 kHz 60 kHz and 100 kHz	0.0040 % 0.0035 % 0.0032 % 0.010 %		
	300 V 45 Hz, 1 kHz, 5 kHz, 10 kHz, 15 kHz and 20 kHz 33 kHz, 50 kHz and 100 kHz	0.012 % 0.013 %		
	1000 V 45 Hz, 1 kHz, 5 kHz and 10 kHz 15 kHz and 20 kHz 30 kHz and 33 kHz 50 kHz and 100 kHz	0.013 % 0.013 % 0.014 % 0.016 %		



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AC VOLTAGE (cont'd)				P
Measurement (cont'd)				
Other Values				
	1 mV to 3 mV			
	10 Hz to 100 Hz	0.16 %		
	100 Hz to 30 kHz	0.14 %		
	30 kHz to 200 kHz	0.20 %		
	200 kHz to 500 kHz	0.36 %		
	500 kHz to 1 MHz	0.72 %		
	3 mV to 10 mV			
	10 Hz to 100 Hz	0.050 %		
	100 Hz to 30 kHz	0.035 %		
	30 kHz to 200 kHz	0.080 %		
	200 kHz to 500 kHz	0.21 %		
	500 kHz to 1 MHz	0.50 %		
	10 mV to 30 mV			
	10 Hz to 100 Hz	0.040 %		
	100 Hz to 30 kHz	0.025 %		
	30 kHz to 200 kHz	0.060 %		
	200 kHz to 500 kHz	0.16 %		
	500 kHz to 1 MHz	0.38 %		
	30 mV to 100 mV			
	10 Hz to 100 Hz	0.030 %		
	100 Hz to 30 kHz	0.015 %		
	30 kHz to 200 kHz	0.030 %		
	200 kHz to 500 kHz	0.10 %		
	500 kHz to 1 MHz	0.25 %		
	100 mV to 300 mV			
	10 Hz to 30 kHz	0.0050 %		
	30 kHz to 200 kHz	0.011 %		
	200 kHz to 500 kHz	0.050 %		
	500 kHz to 1 MHz	0.13 %		
	300 mV to 30 V			
	10 Hz to 30 kHz	0.0050 %		
	30 kHz to 200 kHz	0.020 %		
	200 kHz to 500 kHz	0.050 %		
	500 kHz to 1 MHz	0.12 %		
	30 V to 100 V			
	10 Hz to 30 kHz	0.0050 %		
	30 kHz to 200 kHz	0.010 %		
	100 V to 300 V			
	10 Hz to 30 kHz	0.013 %		
	30 kHz to 200 kHz	0.017 %		
	300 V to 1100 V			
	10 Hz to 30 kHz	0.013 %		
	30 kHz to 200 kHz	0.021 %		
	1.0 kV to 30 kV			
	50/60 Hz	0.42 %		



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AC CURRENT	50 Hz to 60 Hz, 1 kHz 20 μ A to 200 μ A	0.016 %		P
	5 kHz 20 μ A to 200 μ A	0.060 %		
	50 Hz to 1 kHz, 200 μ A to 200 mA	0.016%		
	5 kHz 200 μ A to 200 mA	0.060%		
	50 Hz to 1 kHz 200 mA to 2A	0.030%		
	50 Hz to 60 Hz, 2 A to 100 A	0.030 %		
	50Hz to 60 Hz 10 A to 100 A 100 A to 2500 A	0.08 % + 0.023 A 0.26 % + 0.60 A		
AC POWER	50 Hz to 60 Hz, 400 Hz, 5 kHz 50 mW to 4 kW 4 kW to 10 kW	0.052 % 0.20 %	At unity power factor. Measurements can be made at power factors of 0.9, 0.5, 0.1 and 0.01 but the quoted uncertainties will be increased.	P
FREQUENCY				P
Specific value	10 MHz	1.0 in 10^{10}		
Other values	0.1 Hz to 1 Hz 1 Hz to 10 Hz 10 Hz to 100 Hz 100 Hz to 10 kHz	5.0 in 10^4 5.0 in 10^5 5.0 in 10^6 5.0 in 10^7	Multi-period measurement	
	10 kHz to 100 kHz 100 kHz to 1.0 MHz 1.0 MHz to 10 MHz 10 MHz to 150 MHz 150 MHz to 1 GHz 1 GHz to 20 GHz	1.0 in 10^6 1.0 in 10^7 1.0 in 10^8 1.0 in 10^9 1.0 in 10^9 3.0 to 10^{10}	Frequency measurement	
PHASE ANGLE	50 Hz to 10 kHz 0° to 360°	0.050°		P



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CAPACITANCE				P
Specific values and frequencies	<i>100 Hz</i> 1 nF 10 nF 100 nF 1 µF <i>1.0 kHz</i> 1 pF 10 pF 100 pF 1 nF 10 nF 100 nF 1 µF 10 µF 100 µF <i>10 kHz</i> 1 nF 10 nF 100 nF 1 µF <i>1.0 MHz</i> 1 pF 10 pF 100 pF 1 nF	0.012 % 0.022 % 0.012 % 0.012 % 0.27 % 0.045 % 0.041 % 0.012 % 0.012 % 0.012 % 0.012 % 0.012 % 0.016 % 0.060 % 0.012 % 0.012 % 0.012 % 0.030 % 0.24 % 0.042 % 0.041 % 0.048 %		
Other Values and Frequencies	1 nF to 1 µF <i>100 Hz to 10 kHz</i>	0.080 %		
INDUCTANCE				P
Specific values and frequencies	<i>100 Hz</i> 1 mH 10 mH 100 mH 1 H <i>1 kHz</i> 1 µH 10 µH 100 µH 1 mH 10 mH 100 mH 1 H	0.15 % 0.15 % 0.15 % 0.06 % 0.37 % 0.30 % 0.030 % 0.030 % 0.030 % 0.030 % 0.030 %		



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INDUCTANCE (cont'd)				P
Specific values and frequencies	10 kHz 1 μ H 10 μ H 100 μ H 1 mH 10 mH 100 mH 1 H	0.37 % 0.30 % 0.040 % 0.030 % 0.040 % 0.060 % 0.80 %		
	100 Hz to 1 kHz 1 H	0.080 %		
	1 kHz to 10 kHz 1 H	0.83 %		
Other values, other frequencies	1 mH to 100 mH 100 Hz to 10 kHz	0.15 %		
ELECTRICAL SIMULATION				
Temperature indicators, calibration by electrical simulation				
Base metal thermocouples	- 270 °C to 0 °C 0 °C to 1370 °C	0.24 °C 0.16 °C	excluding cold junction compensation	P
	- 270 °C to 0 °C 0 °C to 1370 °C	0.26 °C 0.20 °C	Including cold junction compensation	
Noble metal thermocouples	0 °C to 200 °C 200 °C to 800 °C 800 °C to 1760 °C	0.51 °C 0.50 °C 1.0 °C	excluding cold junction compensation	P
	0 °C to 200 °C 200 °C to 800 °C 800 °C to 1760 °C	0.60 °C 0.50 °C 1.0 °C	Including cold junction compensation	
Cold junction compensation	At ambient of 23 °C	0.1 °C		



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RF POWER	-70 dBm to -36 dBm		50 ohm systems only	P
	10 MHz to 50 MHz	3.7 %		
	50 MHz to 3 GHz	3.7 %		
	3 GHz to 6 GHz	3.8 %		
	6 GHz to 10 GHz	3.8 %		
	10 GHz to 14 GHz	3.9 %		
	14 GHz to 18 GHz	4.2 %		
	-36 dBm to -14 dBm			
	10 MHz to 50 MHz	2.0 %		
	50 MHz to 3 GHz	2.0 %		
	3 GHz to 6 GHz	2.1 %		
	6 GHz to 10 GHz	2.2 %		
	10 GHz to 14 GHz	2.4 %		
14 GHz to 18 GHz	2.8 %			
RF VOLTAGE	-14 dBm to 20 dBm		50 ohm systems only	P
	10 MHz to 50 MHz	1.4 %		
	50 MHz to 3 GHz	1.5 %		
	3 GHz to 6 GHz	1.6 %		
	6 GHz to 10 GHz	1.8 %		
10 GHz to 14 GHz	2.0 %			
14 GHz to 18 GHz	2.5 %			
50 MHz at 0 dBm	1.0 %			
AMPLITUDE MODULATION	200 µV to 10 V		Applicable for Amplitude Modulation Frequency Modulation Phase Modulation - Carrier frequency range 10 MHz to 1.36 GHz Modulation frequency range 10 Hz to 200 kHz	
	9 kHz to 30 MHz	1.7 %		
	30 MHz to 100 MHz	1.9 %		
	100 MHz to 1 GHz	2.0 %		
	1 GHz to 1.6 GHz	4.1 %		
1.6 GHz to 2.0 GHz	5.4 %			
FREQUENCY MODULATION	1 % to 15 %	4.1 %		
	15 % to 30 %	2.3 %		
	30 % to 50 %	2.0 %		
	50 % to 90 %	1.9 %		
PHASE MODULATION	1 kHz to 400 kHz	1.5 %		
	1 radian to 200 radians	1.5 %		



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VOLTAGE REFLECTION COEFFICIENT	100 kHz to 1.3 GHz 0.0 to 0.3 0.3 to 0.6 0.6 to 1.0	0.011 to 0.012 0.012 to 0.014 0.014 to 0.019	Using HP8753ES Type N connectors only Results and uncertainties may also be quoted in units of Return loss (dB) or VSWR	P
	>1.3 GHz to 3 GHz 0.0 to 0.3 0.3 to 0.6 0.6 to 1.0	0.011 to 0.015 0.012 to 0.016 0.016 to 0.028		
	0.045 GHz to 2 GHz 0.0 to 0.3 0.3 to 0.6 0.6 to 1.0	0.011 to 0.012 0.012 to 0.014 0.014 to 0.019	Using HP810C Type N Connectors only Results and uncertainties may also be quoted in units of Return loss (dB) or VSWR	
	>2 GHz to 18 GHz 0.0 to 0.3 0.3 to 0.6 0.6 to 1.0	0.011 to 0.016 0.012 to 0.020 0.016 to 0.037		
RF ATTENUATION	100 kHz to 1.3 GHz 0 dB to 30 dB 30 dB to 50 dB 50 dB to 70 dB 70 dB to 80 dB 80 dB to 84 dB	0.028 dB to 0.064 dB 0.064 dB to 0.13 dB 0.13 dB to 0.84 dB 0.77 dB to 2.6 dB 2.4 dB to 4.2 dB	Using HP8753ES The uncertainties quoted are for devices fitted with type-N connectors only and which present a near match to the 50 Ω measurement system. Measurement of devices presenting significant mismatch will receive larger uncertainties.	P
	>1.3 GHz to 3 GHz 0 dB to 30 dB 30 dB to 50 dB 50 dB to 70 dB 70 dB to 80 dB 80 dB to 84 dB	0.036 dB to 0.068 dB 0.067 dB to 0.14 dB 0.13 dB to 0.95 dB 0.84 dB to 2.9 dB 2.6 dB to 4.7 dB		
RF ATTENUATION	45 MHz to 6 GHz 0 dB to 30 dB 30 dB to 50 dB 50 dB to 70 dB 70 dB to 80 dB 80 dB to 84 dB	0.040 dB to 0.069dB 0.069 dB to 0.14 dB 0.12 dB to 0.99 dB 0.64 dB to 3.1 dB 2.0 dB to 4.9 dB	Using HP8510C The uncertainties quoted are for devices fitted with type-N connectors only and which present a near match to the 50 Ω measurement system. Measurement of devices presenting significant mismatch will receive larger uncertainties.	P
	>6 GHz to 12 GHz 0 dB to 30 dB 30 dB to 50 dB 50 dB to 70 dB 70 dB to 80 dB 80 dB to 84 dB	0.043 dB to 0.073 dB 0.072 dB to 0.18 dB 0.15 dB to 1.4 dB 0.99 dB to 4.4 dB 3.1 dB to 6.9 dB		
	>12 GHz to 18 GHz 0 dB to 30 dB 30 dB to 50 dB 50 dB to 70 dB 70 dB to 80 dB 80 dB to 84 dB	0.056 dB to 0.081 dB 0.081 dB to 0.18 dB 0.18 dB to 1.4 dB 1.4 dB to 4.4 dB 4.4 dB to 6.9 dB		



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DIMENSIONAL			NOTES	
Length	All units of Dimensional measurement in millimetres unless otherwise stated	All Dimensional uncertainties quoted in micrometres unless otherwise stated	1 The uncertainty quoted is for the departure from flatness, straightness, or squareness, ie, the distance separating the two parallel planes which just enclose the surface under consideration.	P
Thread measuring cylinders	As BS 5590:1978 1 to 3 diameter 3 to 5	0.60 0.90		P
Plain plug gauges (parallel), cylindrical setting standards and rollers	1 to 3 diameter 3 to 100 100 to 150	0.60 1.0 1.5		P
Length gauges (Flat & Spherical)	25 to 600	1.0 + (5.0 x length in m)		P
Plain ring gauges (parallel)	10 to 25 25 to 50 50 to 100 100 to 150	1.0 1.2 1.7 2.3		P
Angle				P
Squares (see note 1) Blade type	As BS 939:2007 50 to 450	5.0		
Block	As BS 939:2007 50 to 450	5.0		
Angle plates and box angle plates (see note 1)	As BS 5535:1978 50 to 450	Squareness: 4.2 + (1.0 per 100 mm) Parallelism: 1.0 + (1.0 per 100 mm)		P
Form				
Surface plates (see note 1) Granite Cast iron	As BS 817:2008 160 x 100 to 4000 x 6000	1.7 + (0.80 x diagonal in m)		P & S



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DIMENSIONAL (cont'd)				
Measuring machines and instruments				
Micrometer				P
External	As BS 870:2008 0 to 450	Heads: 2.0 between any two points Setting: 1.9 + (7.0 x length in m)		
Internal	As BS 959:2008 0 to 450	Heads: 2.0 between any two points Setting and extension rods: 1.0 + (5.0 x length in m)		
Depth	As BS 6468:2008 0 to 450	Heads: 2.0 between any two points Setting and extension rods: 1.0 + (5.0 x length in m)		
Micrometer heads	As BS 1734:1951 0 to 100	1.2		P
Height setting micrometer	0 to 300	Heads: 2.0 between any two points Stepped column: 2.0 Overall performance: 3.0		P
Riser blocks for above	150 300 600	2.5 3.0 4.0		P
Vernier gauges				
Caliper	As BS 887:2008 0 to 1000	10 + (30 x length in m)		P
Height	As BS 1643:2008 0 to 1000			
Depth	As BS 6365:2008 0 to 600			
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 to 50	1.0		P
Comparators (external)	As BS 1054:1975 250 to 10,000 magnification	1.0 % of range Minimum 0.20		P
Feeler gauges	As BS 957:2008	3.0		P
Steel rules	BS 4372:1968 0 to 1000	10.0 + (15 x length in m)		



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TORQUE Torque Wrenches Torque Drivers	0.15 N m to 1000 N m To BS EN ISO 6789:2003	1.6 % of reading	The uncertainty quoted is for both the application of the calibration torque and the characteristics of the device being calibrated. Calibration results may also be given in units of lbf in and lbf ft.	P
END				