


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>0152</b></p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<b>ServiceCal Limited</b>	
	<b>Issue No: 016</b> <b>Issue date: 17 June 2008</b>	<b>19 Green Lane</b> <b>Eccles</b> <b>Manchester</b> <b>M30 0RP</b>
		<b>Contact: Mr G D Taylor</b> <b>Tel: +44 (0)161-789 8990</b> <b>Fax: +44 (0)161-789 8991</b> <b>E-Mail: info@servicecal.co.uk</b> <b>Website: http://www.servicecal.co.uk</b>
<b>Calibration performed at the above address only</b>		

### DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ( <i>k</i> =2)	Remarks
<b>ELECTRICAL</b>			
DC RESISTANCE			
Sourcing			
Specific Values	0.01 Ω	30 ppm	
	0.1 Ω	30 ppm	
	1 Ω	8 ppm	
	10 Ω	5 ppm	
	100 Ω	7 ppm	
	1 kΩ	6 ppm	
	10 kΩ	11 ppm	
	100 kΩ	15 ppm	
	1 MΩ	30 ppm	
	10 MΩ	70 ppm	
	100 MΩ	100 ppm	
Other Values	Up to 20 Ω	30 ppm + 60 μΩ	
	20 Ω to 200 Ω	20 ppm	
	200 Ω to 200 kΩ	15 ppm	
	200 kΩ to 2 MΩ	30 ppm	
	2 MΩ to 20 MΩ	70 ppm	
	20 MΩ to 200 MΩ	650 ppm	
	200 MΩ to 2 GΩ	0.65%	
Measurement Specific Values	0.01 Ω	30 ppm	
	0.1 Ω	30 ppm	
	1 Ω	8 ppm	
	10 Ω	5 ppm	
	100 Ω	7 ppm	
	1 kΩ	6 ppm	
	10 kΩ	11 ppm	
	100 kΩ	15 ppm	
	1 MΩ	30 ppm	
	10 MΩ	70 ppm	
	100 MΩ	100 ppm	



0152  
Accredited to  
ISO/IEC 17025:2005

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**ServiceCal Limited**  
Issue No: 016 Issue date: 17 June 2008

Calibration performed at main address only

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ( $k=2$ )	Remarks
<b>DC RESISTANCE</b>			
Other Values	Up to 20 $\Omega$ 20 $\Omega$ to 200 $\Omega$ 200 $\Omega$ to 200 k $\Omega$ 200 k $\Omega$ to 2 M $\Omega$ 2 M $\Omega$ to 20 M $\Omega$ 20 M $\Omega$ to 200 M $\Omega$ 200 M $\Omega$ to 2 G $\Omega$	30 ppm + 60 $\mu\Omega$ 20 ppm 15 ppm 30 ppm 70 ppm 650 ppm 0.65%	
<b>DC VOLTAGE</b> Generation	Up to 200 mV 200 mV to 2 V 2 V to 200 V 200 V to 1100 V	20 ppm + 3 $\mu$ V 6 ppm + 3 $\mu$ V 14 ppm 15 ppm	
Specific Values	100 mV 1 V 10 V 100 V 1 kV	14 ppm 5 ppm 6 ppm 5 ppm 8 ppm	
Measurement	Up to 200 mV 200 mV to 20 V 20 V to 1100 V	12 $\mu$ V 8 ppm + 2 $\mu$ V 15 ppm	
<b>DC CURRENT</b>			
Generation	Up to 200 $\mu$ A 200 $\mu$ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A	40 ppm + 10 nA 20 ppm + 120 nA 125 ppm 175 ppm 300 ppm 550 ppm + 190 $\mu$ A	
Specific values	20 A to 1000 A 100 $\mu$ A 1 mA 10 mA 100 mA 1 A 10A	610 ppm 35 ppm 20 ppm 25 ppm 100 ppm 125 ppm 500 ppm	Calibration of clampmeters only.
Measurement	Up to 200 $\mu$ A 200 $\mu$ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A	130 ppm + 9 nA 130 + 90 nA 130 ppm 150 ppm 275 ppm	
<b>AC VOLTAGE</b> Generation	30 Hz to 10 kHz 200 mV to 200 V 55 Hz to 10 kHz 200 V to 1100 V	0.06% 0.08%	



0152  
Accredited to  
ISO/IEC 17025:2005

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**ServiceCal Limited**  
Issue No: 016 Issue date: 17 June 2008

Calibration performed at main address only

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ( <i>k</i> =2)	Remarks
AC VOLTAGE			
Specific values	30 Hz to 100 kHz 1 mV 10 mV 100 mV	0.3% + 25 μV 0.15% + 25 μV 0.1% + 25 μV	
	10 Hz to 100 kHz 1 V, 10 V, 100 V	0.05%	
	55 Hz to 30 kHz 1 kV	0.06%	
	100 mV 300 Hz, 1 kHz, 10 kHz, 30kHz	0.03%	
	1 V, 10 V, 100 V, 1 kV 300 Hz, 1 kHz, 10 kHz, 30kHz	0.02%	
Measurement	20 mV to 200 mV 20 Hz to 10 kHz 10 kHz to 100 kHz	0.04% 0.15%	
	200 mV to 200 V 100 Hz to 10 kHz 10 kHz to 100 kHz	0.02% 0.15%	
	200 V to 1100 V 55 Hz to 10 kHz 10 kHz to 30 kHz	0.02% 0.15%	
Specific values	300 Hz, 1 kHz, 10 kHz 100 mV 1 V, 10 V, 100 V, 1 kV	0.02% 0.015%	
	30 kHz 100 mV, 1 V, 10 V, 100 V, 1 kV	0.06%	
AC CURRENT			
Generation	10 Hz to 1 kHz 100 μA 1 mA, 10 mA, 100 mA 1 A	0.06% 0.05% 0.07%	
	2 A to 20 A 30 Hz to 500 Hz	0.17 %	
	50 Hz 10 A to 1000 A	0.17 %	Calibration of clampmeters only.
Measurement	55 Hz to 5 kHz 20 μA to 200 mA	0.15%	
	55 Hz to 1 kHz 200 mA to 2 A	0.25%	



0152  
Accredited to  
ISO/IEC 17025:2005

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

**ServiceCal Limited**  
Issue No: 016 Issue date: 17 June 2008

Calibration performed at main address only

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ( $k=2$ )	Remarks
AC CURRENT (cont'd) Specific values	55 Hz, 300 Hz, 1 kHz 100 $\mu$ A, 1 mA, 10 mA, 100 mA 1 A	0.05% 0.1%	
FREQUENCY Measurement	0.1 Hz to 10 Hz 10 Hz to 1 GHz	1 in $10^6$ 2 in $10^9$	
Generation	0.1 Hz to 10 Hz 10 Hz to 1 GHz	1 in $10^6$ 2 in $10^9$	
END			