


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 0404 Accredited to ISO/IEC 17025:2005	A1-CBISS Limited trading as HITEK Issue No: 043 Issue date: 25 July 2017	
	Ground Floor Penmaen House London Road Ashington West Sussex RH20 3JR	Contact: Jeff King Tel: +44 (0)1403 243535 Fax: +44 (0)1403 243536 E-Mail: jeff@hitek.co.uk Website: www.hitek.co.uk

Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Ground Floor Penmaen House London Road Ashington West Sussex RH20 3JR	Local contact Mr Jeff King Tel: +44 (0)1403 243535	Electrical Time Temperature P

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.	Contact as above	Electrical Time Temperature 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 Voltage	0 mV to 100 mV	7.0 ppm + 1.5 μ V	Applied voltages 100 V to 500 V	P & S
	100 mV to 1 V	14 ppm		P & S
	1 V to 10 V	6.0 ppm		P & S
	10 V to 100 V	10 ppm		P & S
	100 V to 1000 V	21 ppm		P & S
	1 kV to 50 kV	0.27 %		P
DC Resistance	0 Ω to 1 Ω	25 ppm + 100 $\mu\Omega$		P & S
	1 Ω to 10 Ω	19 ppm + 100 $\mu\Omega$		P & S
	10 Ω to 100 Ω	15 ppm + 1.0 m Ω		P & S
	100 Ω to 1 k Ω	16 ppm		P & S
	1 k Ω to 10 k Ω	15 ppm		P & S
	10 k Ω to 100 k Ω	16 ppm		P & S
	100 k Ω to 1 M Ω	54 ppm	P & S	
	1 M Ω to 10 M Ω	0.018 %	P & S	
	10 M Ω to 100 M Ω	0.018 %	P & S	
	100 M Ω to 1 G Ω	0.70 %	P	
	1 G Ω to 10 G Ω	0.24 %	P	
AC Voltage	10 mV to 100 mV 1 kHz	0.050 % + 10 μ V	P & S	
	100 mV to 10 V 20 Hz to 1 kHz	0.060 %	P & S	
	1 kHz to 20 kHz	0.035 %		
	20 kHz to 100 kHz	0.15 %		
	10 V to 100 V 20 Hz to 1 kHz	0.062 %	P & S	
	1 kHz to 20 kHz	0.038 %		
	20 kHz to 100 kHz	0.15 %		
	100 V to 1000 V 50 Hz to 1 kHz	0.071 %	P & S	
	1 kHz to 20 kHz	0.077 %		
	1000 V to 30 kV 50 Hz	1.5 %	P	
	DC Current	0 nA to 100 nA	0.045 % + 60 pA	P
		100 nA to 1 μ A	0.051 % + 60 pA	P
1 μ A to 10 μ A		0.015 %	P & S	
10 μ A to 100 μ A		0.013 %	P	
0.1 mA to 1 mA		90 ppm	P	
1 mA to 10 mA		90 ppm	P	
10 mA to 100 mA		100 ppm	P	
100 mA to 1 A		0.020 %	P & S	
1 A to 10 A		0.18 %	P & S	
10 A to 100A		0.30 % + 0.005 A	P & S	



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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
DC Current (cont'd)	10 A to 110 A 110A to 1100A	0.80 % +0.15A 0.80	Source via multi turn coil for the calibration of clamp meters	P
AC Current	45 Hz to 1 kHz 10 μ A to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.080 % + 45 nA 0.080 % + 300 nA 0.080 % + 3.0 μ A 0.080 % + 30 μ A 0.12 % + 250 μ A 0.38 %		P & S P & S P & S P & S P & S P & S
	100 Hz 10 A to 20 A	0.050 % + 5.0 mA	Generation only	P P
	45 Hz to 65 Hz 10 A to 110 A 110 A to 1100 A	0.80 % +0.30A 1.10 %	Source via multi turn coil for the calibration of clamp meters	P P
Frequency				P
Specific Values	1 MHz, 5 MHz, 10 MHz	1.5 in 10^6		
	0.01 Hz to 0.1 Hz 0.1 Hz to 10 kHz 10 kHz to 1 MHz 1 MHz to 10 MHz 10 MHz to 20 GHz	1.5 ppm 0.15 ppm 1.5 ppm 0.15 ppm 0.030 ppm		
Temperature indicators and simulators, calibration by electrical simulation				
Base metal thermocouple	- 200 °C to + 1600 °C	0.10 °C	excluding cold junction compensation	P
Cold junction compensation	At 0 °C	0.050 °C	These are supplementary measurements for monitoring temperature and can be reported on UKAS certificates to assure the operation of the thermocouple.	P & S
Resistance thermometer (Pt 100)	- 200 °C to + 800 °C	0.020 °C		P
END				