

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS CALIBRATION</p> <p>0404</p> <p>Accredited to ISO/IEC 17025:2005</p>	<p>HITEK Ltd</p> <p>Issue No: 030 Issue date: 12 March 2008</p>	
	<p>Unit 6 Foundry Court Foundry Lane Horsham West Sussex RH13 5PY</p>	<p>Contact: Mr G Shapland Tel: +44 (0)1403 243535 Fax: +44 (0)1403 243536 E-Mail: sales@hitek.co.uk Website: www.hitek.co.uk</p>
<p>Calibration performed at the above address only</p>		

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks
ELECTRICAL			
DC Voltage			
Generation	20 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V	40 ppm + 2.5 μ V 40 ppm 40 ppm 40 ppm 40 ppm	
Measurement	up to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	7 ppm + 1.5 μ V 14 ppm 6 ppm 10 ppm 21 ppm 0.27%	
DC Resistance			
Sourcing	0.1 Ω 1 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω 100 M Ω	0.35% 0.15% 49 ppm 25 ppm 25 ppm 25 ppm 27 ppm 39 ppm 61 ppm 0.063%	
Measurement	up to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1 G Ω 1 G Ω to 10 G Ω	25 ppm + 100 μ Ω 19 ppm + 100 μ Ω 15 ppm + 1 m Ω 16 ppm 15 ppm 16 ppm 54 ppm 0.018% 0.018% 0.7% 0.24%	100 V to 500 V



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ELECTRICAL (cont'd)			
AC Voltage			
Generation	40 Hz to 1 kHz		
	20 mV to 200 mV	0.29%	
	200 mV to 2 V	0.17%	
	2 V to 20 V	0.11%	
	20 V to 200 V	0.08%	
	200 V to 1000 V	0.12%	
	1 kHz to 10 kHz		
	20 mV to 200 mV	0.29%	
	200 mV to 2 V	0.17%	
	2 V to 20 V	0.11%	
	20 V to 200 V	0.1%	
	200 V to 1000 V	0.12%	
	10 kHz to 60 kHz		
	20 mV to 200 mV	0.3%	
	200 mV to 2 V	0.17%	
	2 V to 20 V	0.1%	
	20 V to 200 V	0.13%	
	10 kHz to 40 kHz		
	200 V to 1000 V	0.1%	
Measurement	1 mV to 10 mV		
	20 Hz to 20 kHz	0.04% + 10 µV	
	20 kHz to 100 kHz	0.06% + 10 µV	
	10 mV to 10 V		
	20 Hz to 1 kHz	0.06%	
	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%	
	1 kHz to 20 kHz	0.038%	
	20 kHz to 100 kHz	0.15%	
	100 V to 1000 V		
	20 Hz to 1 kHz	0.071%	
	1 kHz to 20 kHz	0.077%	
	1000 V to 30 kV		
	50 Hz	1.5%	
DC Current			
Generation	up to 200 µA	60 ppm + 15 nA	
	200 µA to 2 mA	50 ppm + 70 nA	
	2 mA to 20 mA	45 ppm + 800 nA	
	20 mA to 200 mA	0.012% + 6.5 µA	
	200 mA to 2 A	0.01% + 300 µA	
	2 A to 20 A	0.02% + 3.2 mA	
	10 A to 650 A	1.3%	Calibration of Clampmeters only



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ELECTRICAL (cont'd)			
DC Current (cont'd)			
Measurement	up to 100 nA 100 nA to 1 µA 1 µA to 10 µA 10 µA to 100 µA 0.1 mA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.045% + 60 pA 0.051% + 60 pA 0.015% 0.013% 90 ppm 90 ppm 100 ppm 0.02% 0.18%	
AC Current			
Generation	45 Hz to 1 kHz 10 µA to 200 µA 0.2 mA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 10 A	0.08% + 600 nA 0.075% + 700 nA 0.075% + 2.5 µA 0.08% + 20 µA 0.08% + 250 µA 0.075% + 5 mA	
	50 Hz and 60 Hz 10 A to 650 A	1.3%	Calibration of clampmeters only
	100 Hz 10 A to 20 A	0.05% + 5 mA	
Measurement	45 Hz to 1 kHz 10 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.08% + 45 nA 0.08% + 300 nA 0.08% + 3 µA 0.08% + 30 µA 0.12% + 250 µA 0.38%	
Frequency			
Specific Values	1 MHz, 5 MHz, 10 MHz	1.5 in 10 ⁸	
	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 0.03 ppm	
Temperature indicators, calibration by electrical simulation			
Base metal thermocouple	-200 °C to 1600 °C	0.1 °C	excluding cold junction compensation
Cold junction compensation	At ambient temperature of 23 °C	0.5 °C	



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ELECTRICAL (cont'd) Temperature indicators, calibration by electrical simulation (cont'd) Resistance thermometer (Pt 100)	-200 °C to 800 °C	0.05 °C	
Temperature simulators, calibration by electrical simulation Base metal thermocouple	-200 °C to 1600 °C	0.10 °C	excluding cold junction compensation
Cold junction compensation	At ambient temperature of 23 °C	0.5 °C	
Resistance thermometer (Pt 100)	-200 °C to 800 °C	0.02 °C	
END			