

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



4568

Accredited to
ISO/IEC 17025:2005

Metrology Direct Ltd

Issue No:003 Issue date: 17 May 2011

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Calibration performed at the above address only

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks
Generation ONLY			
DC Voltage	300 mV to 320 mV 320 mV to 450 mV 450 mV to 1.5 V 1.5 V to 3.0 V 3.0 V to 4.5 V 4.5 V to 30 V 30 V to 45 V 45 V to 300 V 300 V to 330 V 330 V to 1000 V	20 ppm + 25 μ V 90 ppm + 65 μ V 25 ppm + 120 μ V 20 ppm + 220 μ V 95 ppm + 0.70 mV 20 ppm + 2.5 mV 95 ppm + 8.0 mV 15 ppm + 25 mV 40 ppm + 40 mV 7.0 ppm + 80 mV	
AC Voltage	10 Hz to 10 kHz 300 mV to 100 V	0.15 %	
	40 kHz to 10 kHz 300 V 750 V	0.15 % 0.15 %	
	20 kHz 500V	0.35 %	
	30 kHz to 50 kHz 300 mV to 100 V	0.25 %	
	50 kHz to 100 kHz 300 mV to 100 V	0.55 %	
Resistance	1 Ω 1 Ω to 45 Ω 45 Ω to 1 M Ω 1 M Ω to 4.5 M Ω 4.5 M Ω to 100 M Ω	0.28 % 0.10 % 0.05 % 0.12 % 0.15 %	



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks
Generation ONLY (cont'd)			
DC Current	0.30 ma to 300 mA 300 mA to 10.0A	0.08 % 0.13 %	For Clamp Meters Only
AC Current	10 & 50 Turn Coils	0.25 %	
	10 Hz to 3 kHz		
	0.30 mA	0.40 %	
	0.30 mA to 0.30 A	0.15 %	
	0.30 A to 3.0 A	0.20 %	
	3.00 A to 10 A	0.35 %	
Frequency	3 kHz to 10 kHz		
	0.30 mA	0.10 %	
	0.30 mA to 0.30 A	0.25 %	
	0.30 A to 3.0 A	0.40 %	
	3.0 A to 10.0 A	0.80 %	
	20 kHz		
	0.3 mA to 1 mA	0.10 %	
	1 mA to 3 mA	0.60 %	
	3 mA to 0.30 A	0.35 %	
	30 kHz		
0.3 mA to 1 mA	0.15 %		
1 mA to 3 mA	0.60 %		
3 mA to 0.30 A	0.40 %		
10 & 50 Turn Coils	0.25 %	0.25 %	For Clamp Meters Only
0.5 Hz to 10.0 MHz	0.50 %	0.50 %	



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Remarks
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED			
LENGTH			NOTES
Plain plug gauges (parallel)	0.50 to 100 diameter 100 to 200 diameter 200 to 300 diameter	0.80 1.5 2.0 on diameter	1. Calibration results may be given in imperial units of measurement where appropriate. 2. Single start, symmetrical thread forms only.
Plain ring gauges (parallel)	3 to 25 diameter 25 to 50 diameter 50 to 100 diameter	1.2 1.3 1.4 on diameter	
Plain gap gauges (parallel)	1 to 100 100 to 200 200 to 300	3.0 5.0 8.0	
Thread measuring cylinders	As BS 3777, BS 5590 and specials. 0.1 mm to 5.0 mm	0.5 on diameter	
Length gauges (flat & spherical ended)	25 to 1000	1.0 + (8.0 x length in m)	
Screw plug gauges (parallel) including check and setting plugs (See note 2)	1 to 100 diameter	3.0 on pitch diameter	
Screw ring gauges (parallel) (See note 2)	6 to 100 diameter	5.0 on pitch diameter	
Screw thread pitch	0.2 to 8	1.5	
Screw thread flank angles	0° to 52°	6.0 minutes of arc	
MEASURING INSTRUMENTS AND MACHINES			
Micrometers			
External	As BS 870:2008 0 to 150	Heads: 2.0 between any two points	
Internal	As BS 959:2008 0 to 600	Setting and extension rods:	
Depth	As BS 6468:2008 0 to 150	1.0 + (8.0 x length in m)	



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MEASURING INSTRUMENTS AND MACHINES (cont'd)			
Vernier gauges Caliper	As BS 887:2008 0 to 1000	Overall performance $10 + (30 \times \text{length in m})$	1/ The uncertainty quoted is for both the application of the calibration torque and the characteristics of the device being calibrated. 2/ Calibration results may also be given in units of lbf in and lbf ft.
Height	As BS 1643:2008 0 to 1000		
Dial gauges and dial test indicators	As BS 907:2008 and BS 2795:1981 0 to 50	1.0	
Electronic height gauges and setting masters	0 to 1000	$1 + (5 \times \text{length in m})$	
Torque Wrenches	10 N-m to 1000 N-m	2.5 %	
END			