Schedule of Accreditation

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Compli Group Ltd

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Unit 1
Cabot Business Village
Holyrood Close
Poole
Dorset
BH17 7BA

Contact: Mr Matthew Suter
Tel: +44 (0)1202 658333
E-Mail: m.suter@compli.uk
Website: www.compli.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 Unit 1 Cabot Business Village Holyrood Close Poole Dorset BH17 7BA **Local contact** Mr Matthew Suter Tel: +44 (0)1202 658333 Email: m.suter@compli.uk	Electrical, Temperature and Dimensional, Pressure.	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.	Electrical Simulation and Temperature, Pressure.	S

Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL			Electrical calibrations are performed as a comparison against a reference standard	
DC Voltage				
Measurement			Outputs of instruments can be measured to the stated uncertainties	P
	0 mV to 120 mV	1.4 μV		
	120 mV to 1.2 V	5.4 μV		
	1.2 V to 12 V	60 μV		
	12 V to 120 V	720 μV		
	120 V to 1050 V	12 mV		
High Voltage	1 kV to 4 kV	36 V		
	4 kV to 8 kV	40 V		
	8 kV to 10 kV	47 V		
	10 kV to 12 kV	60 V		
Generation			Values can be generated for the calibration of measuring instruments	P
	0 mV to 200 mV	4.0 μV		
	200 mV to 1 V	20 μV		
	1 V to 2 V	25 μV		
	2 V to 10 V	85 μV		
	10 V to 20 V	0.18 mV		
	20 V to 100 V	3.0 mV		
	100 V to 200 V	3.5 mV		
	200 V to 1000 V	15 mV		
DC Current				
Measurement	0 μA to 120 μA	1.5 nA	Outputs of instruments can be measured to the stated uncertainties	P
	120 μA to 1.2 mA	13 nA		
	1.2 mA to 12 mA	130 nA		
	12 mA to 120 mA	2.5 μA		
	120 mA to 1.2 A	130 μA		
	1.2 A to 12 A	2.5 mA		
	12 A to 30.5 A	13 mA		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (cont'd) DC Current				
Generation	0 μA to 20 μA 20 μA to 50 μA 50 μA to 100 μA 100 μA to 200 μA 0.2 mA to 1 mA 1 mA to 2 mA 2 mA to 5 mA 5 mA to 10 mA 10 mA to 20 mA 20 mA to 50 mA 50 mA to 100 mA 100 mA to 150 mA 150 mA to 200 mA 0.2 A to 1 A 1 A to 2 A 2 A to 10A 10 A to 20A 20 A to 30A	3.0 nA 4.5 nA 5.5 nA 7.5 nA 35 nA 75 nA 0.20 μA 0.40 μA 1.0 μA 5.0 μA 7.0 μA 14 μA 16 μA 80 μA 0.22 mA 3.0 mA 4.5 mA 8.0 mA	Values can be generated for the calibration of measuring instruments	P
	0 A to 60 A 60 A to 300 A 300 A to 1500 A	100 mA 160 mA 650 mA	Simulated current using multi turn coil, for the calibration of clamp-on ammeters.	P
DC Resistance				
Measurement	0 Ω to 1.2 Ω 1.2 Ω to 12 Ω 12 Ω to 120 Ω 0.12 kΩ to 1.2 kΩ 1.2 kΩ to 12 kΩ 12 kΩ to 120 kΩ 0.12 MΩ to 1.2 MΩ 1.2 MΩ to 12 MΩ 12 MΩ to 100 MΩ 100 MΩ to 1 GΩ 1 GΩ to 10 GΩ 10 GΩ to 100 GΩ 100 GΩ to 1 TΩ	20 μΩ 120 μΩ 690 μΩ 7.0 mΩ 110 mΩ 1.3 Ω 28 Ω 0.50 kΩ 20 kΩ 500 kΩ 13 MΩ 900 MΩ 20 GΩ	Outputs of instruments can be measured to the stated uncertainties	P

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (cont'd)			Electrical calibrations are performed as a comparison against a reference standard	
DC Resistance (cont'd)				
Generation (2 wire)	1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ	35 mΩ 35 mΩ 40 mΩ 50 mΩ 0.30 Ω 3.0 Ω 40 Ω 1.2 kΩ 0.15 MΩ 7.5 MΩ	Nominal values can be generated for the calibration of measuring instruments 2 Wire	P
Sourcing (4 wire)	1 mΩ 10 mΩ 100 mΩ 1 Ω 10 Ω 100 Ω 1k Ω 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ 10 GΩ 100 GΩ 1 TΩ	850 nΩ 2.5 μΩ 3.5 μΩ 16 μΩ 280 μΩ 3.7 mΩ 36 mΩ 400 mΩ 4.8 Ω 38 Ω 700 Ω 12 kΩ 200 kΩ 35 MΩ 600 MΩ 15 GΩ	Nominal values can be sourced for the calibration of measuring instruments 4 Wire	P
AC Voltage				
Measurement	*40 Hz to 1 kHz* 20 mV to 105 mV 105 mV to 1.05 V 1.05 V to 10.5 V 10.5 V to 105 V 105 V to 1050 V	 20 μV 74 μV 0.970 mV 22 mV 280 mV	Outputs of instruments can be measured to the stated uncertainties	P
	1 kHz to 20 kHz 20 mV to 105 mV 105 mV to 1.05 V 1.05 V to 10.5 V 10.5 V to 105 V	 30 μV 200 μV 1.0 mV 31 mV		
	1 kHz to 10 kHz 105 V to 1050 V	 290 mV		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL				
AC voltage Measurement (cont'd)	*20 kHz to 50 kHz*			
	20 mV to 105 mV	44 μV		
	105 mV to 1.05 V	200 μV		
	1.05 V to 10.5 V	3.5 mV		
	10.5 V to 105 V	53 mV		
	20 kHz to 50 kHz			
	10 mV to 100 mV	90 μV		
	0.1 V to 1 V	0.35 mV		
	1 V to 10 V	3.5 mV		
	10 V to 100 V	0.28 V		
High Voltage	*50 Hz to 60 Hz*			
	1 kV to 2 kV	58 V		
	2 kV to 4 kV	74 V		
	4 kV to 6 kV	87 V		
	6 kV to 8 kV	110 V		
	8 kV to 10 kV	125 V		
	10 kV to 12 kV	142 V		
Generation	*40 Hz to 50 kHz*		Values can be generated for the calibration of measuring instruments	P
	10 mV to 100 mV	60 μV		
	40 Hz to 10 kHz			
	100 mV to 200 mV	70 μV		
	10 kHz to 50 kHz			
	100 mV to 200 mV	0.13 mV		
	40 Hz to 1 kHz			
	0.2 V to 1 V	0.55 mV		
	1 V to 1.5 V	0.75 mV		
	1.5 V to 2 V	1.1 mV		
	2 V to 15 V	8.0 mV		
	15 V to 20 V	14 mV		
	20 V to 100 V	85 mV		
	100 V to 200 V	100 mV		
	46 Hz to 1 kHz			
	200 V to 500 V	0.25 V		
	500 V to 700 V	0.30 V		
	700 V to 1000 V	0.35 V		
	1 kHz to 20 kHz			
	0.2 V to 1 V	0.60 mV		
	1 V to 2 V	0.80 mV		
	2 V to 10 V	4.0 mV		
	10 V to 20 V	6.0 mV		
	20 V to 100 V	60 mV		
	100 V to 200 V	90 mV		
	20 kHz to 50 kHz			
	0.2 V to 1 V	0.70 mV		
	1 V to 2 V	0.90 mV		
	2 V to 20 V	7.0 mV		
	20 V to 100 V	0.20 V		
	100 V to 200 V	0.25 V		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
AC Current Measurement			Outputs of instruments can be measured to the stated uncertainties	P
	40 Hz to 1 kHz 25 µA to 100.5 µA 100.5 µA to 1.05 mA 1.05 mA to 10.5 mA 10.5 mA to 105 mA 105 mA to 1.05 A 1.05 A to 10.5 A 10.5 A to 30.5 A	 29 nA 280 nA 3.0 µA 31 µA 500 µA 7.0 mA 20 mA		
	1 kHz to 10 kHz 100.5 µA to 1.05 mA 1.05 mA to 10.5 mA 10.5 mA to 105 mA 105 mA to 1.05 A	 640 nA 6.2 µA 70 µA 750 µA		

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL (cont'd) AC Current (cont'd)				
Generation			Values can be generated for the calibration of measuring instruments	P
	40 Hz to 1 kHz 10 μA to 200 μA 0.2 mA to 0.5 mA 0.5 mA to 1 mA 1 mA to 2 mA 2 mA to 5 mA 5 mA to 10 mA 10 mA to 20 mA 20 mA to 50 mA 50 mA to 100 mA 100 mA to 200 mA 0.2 A to 1 A 1 A to 2 A 2 A to 10 A 10 A to 20 A 20 A to 30 A	 0.35 μA 0.60 μA 0.90 μA 1.6 μA 5.0 μA 8.0 μA 14 μA 50 μA 90 μA 0.15 mA 0.90 mA 1.0 mA 25 mA 30 mA 80 mA		
	1 kHz to 5 kHz 10 μA to 200 μA 0.2 mA to 2 mA 2 A to 10 A 10 A to 20 A 20 A to 30 A	 0.45 μA 1.8 μA 55 mA 69 mA 0.11 A		
	5 kHz to 10 kHz 10 μA to 200 μA 0.2 mA to 2 mA	 1.7 μA 4.5 μA		
	10 kHz to 30 kHz 2 mA to 5 mA 5 mA to 20 mA 20 mA to 100 mA 100 mA to 200 mA	 18 μA 40 μA 0.16 mA 0.20 mA		
	50 Hz 0 A to 60 A 60 A to 300 A 300 A to 1500 A	 100 mA 270 mA 1.2 A	Simulated current using multi turn coil, for the calibration of clamp-on ammeters.	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Capacitance				
Generation	1 nF 2 nF 5 nF 10 nF 20 nF 50 nF 100 nF 1 µF 10 µF	4.0 pF 16 pF 35 pF 20 pF 40 pF 0.10 nF 0.15 nF 3.0 nF 30 nF	Nominal values can be generated for the calibration of measuring instruments	P
Time and Frequency				
Generation	10 Hz to 100 Hz 100 Hz to 1 kHz 1 kHz to 10 kHz 10 kHz to 20 kHz 20 kHz to 50 kHz 50 kHz to 100 kHz 100 kHz to 1 MHz 1 MHz to 10 MHz	0.60 mHz 6.0 mHz 60 mHz 0.10 Hz 0.26 Hz 0.60 Hz 6.0 Hz 60 Hz	Values can be generated for the calibration of measuring instruments	P
Time single event	5 s to 24 hours	0.3 s		
Revolutions Per Minute	60 rpm to 3000 rpm 3000 rpm to 49992 rpm 49992 rpm to 60000 rpm	0.16 rpm 1.6 rpm 2.3 rpm		
Oscilloscope Calibration				
Amplitude	2 mV 5 mV to 10mV 20 mV 50 mV 100 mV 200 mV 500 mV to 1 V 2 V 5 V to 10 V 20 V	40 µV 150 µV 180 µV 250 µV 350 µV 1.3 mV 1.9 mV 2.5 mV 15 mV 140 mV	Using signals of known peak to peak voltage.	
Timebase	20 ns/Div to 100 ns/Div 100 ns/Div to 1 µs/Div 1 µs/Div to 10 µs/Div 10 µs/Div to 100 µs/Div 100 µs/Div to 1 ms/Div 1 ms/Div to 10 ms/Div 10 ms/Div to 100 ms/Div 100 ms/Div to 1 s/Div	0.60 ps/s 8.0 ps/s 90 ps/s 750 ps/s 7.0 ps/s 75 ps/s 0.70 µs/s 40 µs/s	Using time markers.	
Bandwidth	10 MHz to 350 MHz	3 MHz	Results are normally reported in terms of the frequency at which the -3 dB points is reached, relative to a low frequency reference.	

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE SIMULATION Temperature indicators, calibration by electrical simulation, for the following sensor types:			Temperature simulation calibrations are performed as a comparison against a reference standard	
Noble metal thermocouples			with cold junction Compensation	P
Type R	0 °C to 400 °C	0.34 °C		
	400 °C to 800 °C	0.19 °C		
	800 °C to 1600 °C	0.17 °C		
	1600 °C to 1759 °C	0.19 °C		
Type S	0 °C to 400 °C	0.33 °C		
	400 °C to 1600 °C	0.20 °C		
	1600 °C to 1759 °C	0.22 °C		
Base metal thermocouples			with cold junction Compensation	P
Type K	-200 °C to -140 °C	0.22 °C		
	-140 °C to 100 °C	0.14 °C		
	100 °C to 1300 °C	0.17 °C		
Type J	-210 °C to -150 °C	0.18 °C		
	-150 °C to 0 °C	0.14 °C		
	0 °C to 800 °C	0.12 °C		
	800 °C to 1200 °C	0.15 °C		
Type T	-200 °C to -150 °C	0.21 °C		
	-150 °C to -50 °C	0.14 °C		
	-50 °C to 0 °C	0.12 °C		
	0 °C to 390 °C	0.10 °C		
Type N	-200 °C to -150 °C	0.24 °C		
	-150 °C to -50 °C	0.16 °C		
	-50 °C to 800 °C	0.13 °C		
	800 °C to 1300 °C	0.16 °C		
Type E	-200 °C to 0 °C	0.15 °C		
	0 °C to 200 °C	0.09 °C		
	200 °C to 980 °C	0.10 °C		
Resistance thermometer (Pt100)	-200 °C to 0 °C	0.031 °C	Nominal values	P
	0 °C to 266 °C	0.038 °C		
	266 °C to 558 °C	0.043 °C		
	558 °C to 800 °C	0.072 °C		
Nobel metal thermocouples			with cold junction Compensation	S
Type R	0 °C to 400 °C	0.75 °C		
	200 °C to 1759 °C	0.50 °C		
Type S	0 °C to 500 °C	0.75 °C		
	200 °C to 1759 °C	0.55 °C		
Base metal thermocouples			with cold junction Compensation	S
Type K	-50 °C to +1300 °C	0.70 °C		
Type J	-50 °C to +1100 °C	0.60 °C		
Type T	-50 °C to +390 °C	0.75 °C		
Type N	-50 °C to +1300 °C	0.75 °C		
Resistance thermometer (Pt100)	-50 °C to +600 °C	0.28 °C		S

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
Temperature simulators, calibration by electrical simulation, for the following sensor types:				
Noble metal thermocouples			with cold junction Compensation	P
Type R	0 °C to 400 °C	0.66 °C		
	400 °C to 600 °C	0.35 °C		
	600 °C to 1600 °C	0.32 °C		
	1600 °C to 1759 °C	0.36 °C		
Type S	0 °C to 600 °C	0.64 °C		
	600 °C to 1000 °C	0.36 °C		
	1000 °C to 1400 °C	0.32 °C		
	1400 °C to 1759 °C	0.42 °C		
Base metal thermocouples			with cold junction Compensation	P
Type K	-200 °C to -140 °C	0.35 °C		
	-140 °C to -50 °C	0.19 °C		
	-50 °C to 0 °C	0.15 °C		
	0 °C to 1300 °C	0.26 °C		
Type J	-210 °C to -50 °C	0.27 °C		
	-50 °C to 750 °C	0.16 °C		
	750 °C to 1200 °C	0.23 °C		
Type T	-200 °C to -150 °C	0.34 °C		
	-150 °C to -50 °C	0.21 °C		
	-500 °C to 0 °C	0.16 °C		
	0 °C to 390 °C	0.13 °C		
Type N	-200 °C to -150 °C	0.43 °C		
	-150 °C to -50 °C	0.25 °C		
	-50 °C to 800 °C	0.19 °C		
	800 °C to 1300 °C	0.26 °C		
Type E	-200 °C to -100 °C	0.22 °C		
	-100 °C to 0 °C	0.13 °C		
	0 °C to 600 °C	0.11 °C		
	600 °C to 980 °C	0.14 °C		
Resistance thermometer	-200 °C to 0 °C	0.005 °C		P
	0 °C to 800 °C	0.020 °C		
Base metal thermocouples			with cold junction Compensation	S
Type K	-50 °C to 0 °C	1.0 °C		
	0 °C to 1300 °C	1.0 °C		
Type J	-50 °C to +750 °C	1.0 °C		
Type T	-50 °C to 0 °C	1.0 °C		
	0 °C to 390 °C	1.0 °C		
Type N	-50 °C to +1300 °C	1.0 °C		
Resistance thermometer (Pt100)	-50 °C to +600 °C	0.24 °C		S

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE			Temperature calibrations are performed as a comparison against a reference standard	
Resistance thermometers and Electronic thermometers with sensors	-80 °C to 0 °C 0 °C to 140 °C 0.01 °C 140 °C to 200 °C 200 °C to 400 °C 400 °C to 650 °C 650 °C to 850 °C 850 °C to 1050 °C 1050 °C to 1200 °C	0.06 °C 0.10 °C 0.01 °C 0.10 °C 0.15 °C 0.18°C 1.7 °C 2.5 °C 3.3 °C	 In Triple point of water cell In a range of dry and liquid media including furnaces	P
Base metal thermocouples	-80 °C to +140 °C 140 °C to 200 °C 200 °C to 400 °C 400 °C to 650 °C 650 °C to 850 °C 850 °C to 1050 °C 1050 °C to 1200 °C	0.40 °C 0.70 °C 1.2 °C 1.8 °C 1.9 °C 2.9 °C 3.6 °C	In a range of dry and liquid media including furnaces	P
Noble metal thermocouples				
Type R & Type S	0 °C to 200 °C 200 °C to 400 °C 400 °C to 650 °C 650 °C to 850 °C 850 °C to 1050 °C 1050 °C to 1200 °C	0.60 °C 0.75 °C 1.0 °C 1.8 °C 2.6 °C 3.4 °C	In a range of dry and liquid media including furnaces	
Metal block calibrators	 -80 °C to +230 °C 230 °C to 420 °C 420 °C to 660 °C	 0.050 °C 0.060 °C 0.085 °C	 Method consistent with Euramet CG13	P
Temperature surveys				
Temperature controlled, incubators, ovens, environmental chambers, fridges/refrigerators and freezers	-80 °C to +200 °C 200 °C to 600 °C	0.75 °C 0.85 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	S
Temperature indicators and recorders, with temperature sensor(s)	-30 °C to +140 °C 140 °C to 400 °C 400 °C to 650 °C	0.10 °C 0.20 °C 0.25 °C	With a dry block bath	S

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
ELECTRICAL EQUIPMENT FOR IEE 16TH/17TH/18TH EDITION WIRING TESTING			Electrical calibrations are performed as a comparison against a reference standard	
LOOP TESTERS	Nominal applied resistances			
AC Resistance at 50 Hz	0.05 Ω 0.10 Ω 0.22 Ω 0.33 Ω 0.5 Ω 1 Ω 5 Ω 10 Ω 100 Ω 1 kΩ	3.9 mΩ 4.2 mΩ 6.0 mΩ 5.6 mΩ 5.7 mΩ 6.6 mΩ 20 mΩ 37 mΩ 1.4 Ω 3.0 Ω		P
CONTINUITY TESTERS				
DC Resistance	0 mΩ to 10 mΩ 10 mΩ to 100 mΩ 0.1 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ	15 μΩ 20 μΩ 25 μΩ 0.35 mΩ 3.0 mΩ 30 mΩ 81 mΩ 1.5 Ω 20 Ω		P
Continuity Current	0 mA to 100 mA 100 mA to 1 A	3.5 μA 0.12 mA		P

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
INSULATION TESTERS				
DC Resistance	10 kΩ to 20 kΩ 20 kΩ to 2 MΩ 2 MΩ to 4 MΩ 4 MΩ to 6 MΩ 6 MΩ to 9 MΩ 9 MΩ to 20 MΩ 20 MΩ to 90 MΩ 90 MΩ to 400 MΩ 400 MΩ to 800 MΩ 800 MΩ to 2 GΩ 2 GΩ to 10 GΩ	0.12 % 0.12% 0.12 % 0.12 % 0.60 % 0.85 % 0.65 % 1.3 % 1.2 % 1.3 % 3.0 %		P
DC Voltage	50 V 100 V 150 V 200 V 250 V 500 V 1000 V	0.80 V 1.1 V 1.4 V 1.7 V 2.0 V 3.5 V 6.5 V		P
Earth Resistance	0 mΩ to 10 mΩ 10 mΩ to 100 mΩ 0.1 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ	15 μΩ 20 μΩ 25 μΩ 0.35 mΩ 3.0 mΩ 30 mΩ 81 mΩ 1.5 Ω		P

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
EQUIPMENT FOR IEE 16TH/17TH/18TH EDITION WIRING TESTING (cont'd)			Electrical calibrations are performed as a comparison against a reference standard	
<u>RCD TESTERS</u>				
Trip time	20 ms to 390 ms 390 ms to 1 s	0.75 ms 9.3 ms		P
Trip Current at 50 Hz	10 mA 15 mA 30 mA 60 mA 100 mA 150 mA 300 mA 500 mA 1 A	110 µA 170 µA 280 µA 520 µA 770 µA 1.2 mA 2.4 mA 4.0 mA 8.0 mA		P
AC Voltage Source at 50 Hz	100 V 200 V 230 V 300 V 400 V	0.35 V 0.51 V 0.48 V 0.63 V 0.80 V		P
<u>PORTABLE APPLIANCE TESTERS</u>				
Earth Bond Resistance at 50Hz	0.05 Ω 0.1 Ω 0.17 Ω 0.28 Ω 0.38 Ω 0.54 Ω 1 Ω 5 Ω 10 Ω 100 Ω 1 kΩ	5.0 mΩ 5.0 mΩ 5.6 mΩ 5.6 mΩ 6.1 mΩ 6.6 mΩ 9.0 mΩ 42 mΩ 42 mΩ 375 mΩ 4.1 Ω		P
Earth Continuity and Bond Current at 50Hz	100 mA 200 mA 200 mA to 500 mA 500 mA to 4 A 4 A to 8 A 8 A to 12 A 12 A to 25 A	4.9 mA 5.7 mA 8.5 mA 170 mA 120 mA 150 mA 270 mA		P
Earth Continuity Current DC	10 mA to 100 mA 100 mA to 300 mA	0.60 mA 1.8 mA		
Leakage Current	*40 Hz to 1 kHz* 0 µA to 100 µA 0.1 mA to 1 mA 1 mA to 10 mA 10 mA to 100 mA	 60 nA 0.20 µA 6.5 µA 65 µA		P

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
EQUIPMENT FOR IEE 16TH/17TH/18TH EDITION WIRING TESTING (cont'd)			Electrical calibrations are performed as a comparison against a reference standard	
Insulation Resistance DC *See DC Resistance Insulation Testers*				P
Insulation Resistance Test Voltage	50 V 100 V 150 V 200 V 250 V 500 V 1000 V	0.80 V 1.1 V 1.4 V 1.7 V 2.0 V 3.5 V 6.5 V		P
Earth Continuity Resistance *See DC Resistance Continuity Testers*				
Flash Test Voltage at 50 Hz	1 kV to 1.5 kV (Class 1) 1.5 kV to 3 kV (Class 2)	45 V 80 V		P
Flash Test Current	0.67 mA to 1 mA (Class 1) 0.34 mA to 1 mA (Class 2)	40 µA 40 µA		P
Load at 50Hz	49 VA to 7.5 kVA	0.20 VA		P

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
PRESSURE			Methods consistent with EURAMET CG17. Pressure instruments with an electrical output can be calibrated.	
Gas pressure (absolute)				
Calibration of pressure indicating instruments and gauges	1.1 kPa to 24 kPa 24 kPa to 120 kPa	75 Pa 95 Pa		P & S
Gas pressure (gauge)			Absolute pressures across all gauge pressure ranges can be measured. The measurement uncertainty will include the barometric pressure measurement uncertainty.	
Calibration of pressure indicating instruments and gauges	-100 kPa to –4 kPa -4 kPa to –2.0 kPa -2.0 kPa to -200 Pa -200 Pa to 200 Pa 200 Pa to 2 kPa 2 kPa to 200 kPa 200 kPa to 3.4 MPa 3.4 MPa to 7 MPa 7 MPa to 14 MPa	0.015 % + 2.0 Pa 0.045 % + 52 Pa 0.20 % + 0.50 Pa 0.20 % + 0.15 Pa 0.15 % + 0.5 Pa 0.013 % + 1.0 Pa 0.010 % + 12 Pa 0.070 % + 0.20 kPa 0.050 % + 2.5 kPa		P
	-95 kPa to –2.0 kPa -2.0 kPa to -200 Pa -200 Pa to 200 Pa 200 Pa to 2 kPa 2 kPa to 200 kPa 200 kPa to 7 MPa 7 MPa to 14 MPa	0.045 % + 52 Pa 0.20 % + 0.50 Pa 0.20 % + 0.15 Pa 0.20 % + 0.50 Pa 0.025 % + 52 Pa 0.070 % + 1.0 kPa 0.050 % + 2.5 kPa		S
Hydraulic pressure (gauge)				
Calibration of pressure indicating instruments and gauges	300 kPa to 6.0 MPa 6.0 MPa to 120 MPa 120 MPa to 200 MPa	0.010 % + 0.12 kPa 0.010 % 0.020 %		P
	0 kPa to 200 kPa 200 kPa to 7 MPa 7 MPa to 20 MPa 20 MPa to 70 MPa 70 MPa to 200 MPa	0.025 % + 52 Pa 0.070 % + 1.0 kPa 0.050 % + 2.5 kPa 0.025 % + 3.0 kPa 0.025 % + 25 kPa		S

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
DIMENSIONAL				
Length				
Thread measuring cylinders	BS 5590:1978 and specials 0.1 to 6.5	0.50 on diameter		P
Plain plug gauges (parallel), and cylindrical standards	1 to 50 diameter 50 to 100 diameter 100 to 200 diameter	0.80 1.2 1.5	By comparison with end standards.	
Plain ring gauges (parallel) and setting standards	2 to 50 50 to 100 100 to 150 150 to 200	1.5 2.0 2.5 3.5	Using a horizontal measuring machine and/or end standards	
Screw plug gauges (parallel) including check and setting plugs See Notes 1	1 to 100 diameter 100 to 150 diameter	3.0 on pitch 4.0 diameter	Screw thread gauges are calibrated using the methods based on NPL publication Notes on Applied Science No. 1 "Gauging and Measuring Screw Threads"	P
Screw plug gauges (taper) including check plugs See Notes 1	1 to 100 diameter 100 to 150 diameter	5.0 on pitch 8.0 diameter		
Gauge length and steps	50mm	3.0		
Screw ring gauges (parallel) See Notes 1 and 2	1 to 100 diameter	5.0 on pitch diameter		
Screw pitch	0.2 to 8	2.0		P
Screw flank angle	0° to 52°	5.0 minutes of arc		
Screw thread adjustable calliper gauges (parallel) See Note 3	1 to 100 diameter	See Note 3	By comparison with setting plugs.	P
Length gauges, flat and spherical ended	25 to 575	1.0 + (8.0 x length in m)	By comparison with end standards.	P

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED				
MEASURING INSTRUMENTS AND MACHINES cont.				
Micrometers External	BS 870:2008 0 to 600			P
	Traverse of micrometer screw Flatness of anvils Parallelism of anvils Alignment	2.0 between any points 0.5 1.0 6.0		
Depth	BS 6468:2008 0 to 300	Extension rods 2.0 + (7.0 x length in m) Flatness of measuring faces: 0.5 Parallelism of measuring faces: 1.0		
Internal micrometers	BS 959:2008 0 to 300	Heads: 2.0 between any points Extension rods: 2.0 + (8.0 x length in m)		
Bore micrometers (three point)	3 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter	4.0 5.0 5.5 6.0	By comparison with setting rings	P
Vernier caliper, height and depth gauges	BS 887:2008 0 to 1000 BS 1643:2008 0 to 1000 BS 6365:2008 0 to 600	Overall performance 10 + (30 x length in m) Flatness of measuring faces: 5.0 Parallelism of measuring faces: 5.0 Squareness of measuring faces: 5.0		P
Dial gauges and dial test indicators	BS 907:2008 and BS 2795:1981 0 to 50 Discrimination	 1.0 0.5		P
Notes for dimensional calibrations 1. Single start, symmetrical thread forms only. 2. Includes use of check plugs for screw rings from 1 mm to 8mm diameter 3. Functional test of size using setting plugs.				
END				

Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand.
Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation Q[a, b] stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$