


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

| | | |
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|  UKAS CALIBRATION 0720 Accredited to ISO/IEC 17025:2005 | Rhopoint Metrology Limited Issue No: 029 Issue date: 13 September 2016 | |
| | Eurolab House Unit 10 Valepits Road Garretts Green Industrial Estate Birmingham B33 0TD | Contact: Dean Hughes Tel: +44 (0)121 784 7498 Fax: +44 (0)121 783 6031 E-Mail: dean.hughes@rhopointmetrology.co.uk Website: www.rhopointmetrology.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 Eurolab House Unit 10 Valepits Road Garretts Green Industrial Estate Birmingham B33 0TD | Dean Hughes Dimensional Electrical Mass Torque Pressure Temperature | A |

Site activities performed away from the locations listed above:

| Location details | Activity | Location code |
|--------------------------------------|---|---------------|
| At customers premises Dean Hughes | Dimensional Electrical Mass Pressure | B |



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DETAIL OF ACCREDITATION

| Measured Quantity Instrument or Gauge | Range | Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (<i>k</i> =2) | Remarks | Location Code |
|--|--|---|--|------------------|
| RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED | | | | |
| LENGTH | | | NOTES | |
| Gauge blocks | | Class (see footnote) | Class C uncertainties apply to the measurement of length of steel and tungsten carbide gauges by comparison with grade K standards of length of a similar material. Class C uncertainties apply to grade 0, 1 and 2 gauges to BS EN ISO 3650:1999 and BS 4311:2007. Class D uncertainties represent the best capability for the measurement of length of gauges by comparison with grade K standards of length of a dissimilar material. | A |
| Inch (Steel and tungsten carbide) | BS 4311:2007 | C D | | |
| | 0.01 in to 0.4 in | 3.0 4.0 | | |
| | 0.4 in up to 1 in | 4.0 5.0 | | |
| | Size 2 in | 5.0 7.0 μ in | | |
| | 3 in | 6.0 8.0 | | |
| | 4 in | 7.0 10 | | |
| Millimetre (Steel and tungsten carbide) | BS EN ISO 3650:1999 | C D | | |
| | 0.5 to 10 | 0.080 0.10 | | |
| | 10 up to 25 | 0.10 0.13 | | |
| | Size 30, 40, 50 | 0.12 0.17 | | |
| | 60, 70, 75 | 0.15 0.21 | | |
| | 80, 90, 100 | 0.18 0.25 | | |
| Thread measuring cylinders | BS 5590 and specials 0.1 to 5 | 0.50 | | A |
| Plain plug gauges (parallel) cylindrical setting standards and rollers | 1 to 25 diameter 25 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 300 diameter 300 to 600 diameter | 0.50 0.80 1.2 on diameter 1.5 2.0 4.0 | | A |
| Plain plug gauges (taper) | | | | A |
| Parallel to 1 in 8 on diameter | 3 to 50 diameter 50 to 100 diameter 100 to 200 diameter 200 to 300 diameter | 3.0 4.0 5.0 6.0 | | |
| 1 in 8 to 1 in 3 on diameter | 3 to 50 diameter 50 to 100 diameter 100 to 200 diameter 200 to 300 diameter | 5.0 6.0 7.0 8.0 | on diameter | |
| Plain ring gauges (parallel) and setting standards | 2 to 25 diameter 25 to 100 diameter 100 to 150 diameter 150 to 200 diameter 200 to 400 diameter 400 to 600 diameter | 0.8 1.0 2.0 3.0 4.0 6.0 | on diameter | A |



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| RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED | | | | |
| LENGTH (cont'd) | | | NOTES (cont'd) | |
| Plain ring gauges (taper) | | | | A |
| Parallel to 1 in 8 on diameter | 2 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter | 4.0 5.0 6.0 7.0 | 1 The uncertainty quoted is for the departure from either flatness, straightness, parallelism, or squareness, i.e. the distance separating the two parallel planes which just enclose the surface under consideration. | |
| 1 in 8 to 1 in 3 on diameter | 2 to 50 diameter 50 to 100 diameter 100 to 150 diameter 150 to 200 diameter | 6.0 7.0 8.0 9.0 | | |
| Length gauges, flat and spherical ended | 0 to 600 | 1.0 + (5.0 x length in m) | 2. Calibrations may also be given in lbf.in and lbf.ft. | A |
| Plain gap gauges (parallel) | 0.5 to 100 100 to 200 200 to 300 | 3.0 5.0 8.0 | 3. Single start, symmetrical thread forms only. | A |
| Receiver, position and profile gauges, jigs, fixtures (see note 1) | 0 to 400 x 200 x 200 | Minimum per coordinate: 3.0 + (10 x length in m) | 4. Single and multi-start symmetrical and asymmetrical thread forms. | A |
| Parallels | As BS 906:1972 5 to 50 x 100 x 400 | .5 to 5.0 | | A |
| Vee blocks | As BS 3731:1987 20 to 150 | 2.5 to 5.0 | | A |



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| RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED | | | | | | |
| LENGTH (cont'd) | | | NOTES (cont'd) | | | |
| Screw plug gauges (parallel) including check and setting plugs See Note 4 | 1 to 100 diameter | 3.0 | 5. Functional test of size using setting plugs calibrated with a CMC of 3.0 µm 6. Includes use of check plugs for screw rings from 1 mm to 2.5 mm diameter. | A | | |
| | 100 to 300 | 5.0 | | | | |
| | 300 to 600 | 8.0 | | | | |
| Screw plug gauges (taper) including check plugs See Note 3 | 2 to 100 | 5.0 | | | | |
| | 100 to 300 | 8.0 | | | | |
| | 300 to 500 | 10 | | | | |
| Screw ring gauges (parallel) See Note 4 and 6 | 1 to 100 diameter | 5.0 | | | | |
| | 100 to 150 | 6.0 | | | | |
| | 150 to 200 | 7.0 | | | | |
| | 200 to 300 | 8.0 | | | | |
| | 300 to 600 | 12 | | | | |
| Screw ring gauges (tapered) See Note 3 | 6 to 100 diameter | 7.0 | | | | |
| | 100 to 200 | 10 | | | | |
| | 200 to 400 | 13 | | | | |
| | 400 to 600 | 16 | | | | |
| Screw pitch Screw flank angle | 0.2 to 8 | 1.5 | | | | |
| | 0° to 52° | 5.0 minutes of arc | | | | |
| Screw thread adjustable caliper gauges (parallel) See Note 4 | 1 to 200 diameter | See note 5 | | A | | |
| Vee grooved jaw blades | 0.6 (40 tpi) to 6.0 (4.5 T.P.I) | 3.0 | | A | | |
| Vee grooved end pieces | 0.6 (40 T.P.I) to 6.0 (4.5 T.P.I) | 3.0 | | A | | |
| Plain end pieces | 0 to 0.001 | 0.50 on flatness | | A | | |
| Thread Stylia | 0.6 (40 T.P.I) to 6.0 (4.5 T.P.I) | 0.10 on form | | A | | |
| Thread measuring vee pieces (prisms) | NPL Schedule MOY/SCM1/60 0 to 4.5 | 0.50 | | A | | |
| Orifice plates | BS EN ISO 5167-1:1991 0 to 1000 | 8 | | A | | |
| Penetration needles and cones | Needles to BS 2000-49:2007 0 to 2 diameter Cones to BS 2000:Part 50:1993 0 to 10 diameter | 3.0 on diameter Mass 5.0 mg | | A | | |



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| RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED | | | | |
| ANGLE | | | | |
| Squares | | | | A |
| Blade type | BS 939:2007 50 to 300 300 to 600 600 to 1000 | 3.0 5.0 8.0 | | |
| Cylindrical | BS 939:2007 75 to 300 300 to 600 600 to 1000 | 2.0 4.0 7.0 | On squareness See Note 1 | |
| Block | BS 939:2007 50 to 300 300 to 600 600 to 1000 | 3.0 5.0 8.0 | | |
| Angle plates and box angle plates | BS 5535:1978 50 to 600 | Squareness: 3.0 + (1.0 per 100 mm) Parallelism: 1.0 + (1.0 per 100 mm) See Note 1 | | A |
| Sine bars and tables | BS 3064:1978 0 up to 500 | Linear dimensions: 1.0 + (10 x length in m) Overall performance: 3.0 seconds of arc | | A |
| Sine centres | 0 to 500 length or between centres | Linear dimensions: 1.0 + (10 x length in m) Overall performance: 3.0 seconds or arc | | A |
| Compound sine tables | 0 to 500 length | 3.0 seconds or arc | | |
| FORM | | | | |
| Roundness | | | | |
| External | 0 to 350 diameter | 0.050 on radius | | A |
| Internal | 5 to 350 diameter | | | |
| Straightedges | | | | |
| Cast iron, Steel and Granite | BS 5204:Part 1:1975 BS 5204:Part 2:1977 0 to 2000 | 1.0 + (2.0 x length in m) See Note 1 | | A |
| Precision balls: Steel and Tungsten Carbide | 1 to 30 | 0.80 on diameter | | A |
| Surface plates Granite & cast iron | BS 817:1988 160 x 100 to 10m x 6m | 1.50 + (0.80 x diagonal in m) See Note 1 | | A,B |



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| FORM (cont'd) | | | | |
| Surface texture (excluding measurement standards and roughness comparison specimens) | BS 1134:Part 1:1988 Ra 0.02 µm to 80 µm | 7.0 % of measured value | | A |
| MEASURING INSTRUMENTS AND MACHINES | | | | |
| Micrometers | | | | A |
| External | BS 870:2008 0 to 600 | Heads:2.0 between any two points | | |
| Internal | BS 959:2008 0 to 900 | Setting and extension rods | | |
| Depth | BS 6468:2008 0 to 300 | 1.0 + (5.0 x length in m) | | |
| 3 point bore | 0 to 150 150 to 250 | 5.0 8.0 | | A |
| Micrometer heads | BS 1734:1951 0 to 100 | 1.0 | | A |
| Bench micrometer | NPL MOY/SCMI 22 0 to 100 | Overall performance 2.0 | | A |
| Height gauges - (Simple) including vernier, dial and digital types | BS EN ISO 13225:2012 0 to 1000 | Overall performance: 2.0 + (5.0 x length in m) | | |
| 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) | | A |
| Dial gauges and dial test indicators | BS 907:2008 and BS 2795:1981 0 to 50 | 1.0 | | A |
| Displacement transducers | 0 to 200 | 1.0 | | A |
| Height setting micrometer | 0 to 300 | Heads 1.0 Overall performance 3.0 | | A |
| Riser blocks for above | 150 300 | 2.5 5.0 | | A |
| Bench centres | to 1000 between centres | Linear dimensions 1.0 + (10 x length in m) | | A |



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| MEASURING INSTRUMENTS AND MACHINES (cont'd) | | | | |
| Height gauges, electronic | 0 to 1000 | 1.0 + (5.0 x length in m) | | A |
| Profile projectors | 10 to 100 magnifications Linear 0 to 300 Angular 0° to 360° | Magnification 125 at screen Linear 5.0 Angular 2.0 mins of arc | | A,B |
| Bevel protractors | As BS 1685:2008 0° to 360° | 6 0 minutes of arc | | A |
| Comparators (external) | As BS 1054 250 to 10 000 magnifications | 1.0 % or range Minimum 0.20 | | A |
| Co-ordinate tables | 0 to 500 square with 150 movement | Overall performance 3.0 | | A |
| Spirit levels | As BS 3509:1962 and BS 958:1968 5 seconds of arc to 60 minutes of arc nominal sensitivity | Mean sensitivity 10 % of nominal Minimum 0.50 seconds of arc | | A |
| Electronic indicating levels | 0 to 20 minutes of arc | 1.0 % or range Minimum 0.50 seconds of arc | | A |
| Luer (taper) gauges | BS 3930:Part 1:1987 and BS 3930:Part 2:1991 0.3 to 8 | As per plain taper and screw taper gauges above | | A |
| NPL type Wedge Micrometer | MOY/SMI/89 2.5 micrometer travel | 0.30 | | A |
| Steel Rules | BS 4372:1968 0 to 1000 | 15 + (20 x L in m) | | A |
| Feeler gauges | BS 957:2008 0.025 to 1 | 3.0 | | A |
| Thread diameter measuring | MOY/SCM1/9 and MOY/SCM1/12 0 to 300 | Overall performance 1.5 | | A |
| TORQUE | | | | |
| Hand torque tools | BS EN 6789:2003 1 N-m to 1500 N-m | 1.6 % See Note 2 | | A |



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| RANGE IN MILLIMETRES AND UNCERTAINTY IN MICROMETRES UNLESS OTHERWISE STATED | | | | |
| PRESSURE | | | | |
| <u>Hydraulic pressure (gauge)</u> | | | | |
| Calibration of pressure indicating instruments and gauges, Pressure equivalent calibration of deadweight testers. | 550 kPa to 110 MPa | 0.017 % | Calibration of devices with an electrical output may be undertaken. | A,B |
| <u>Gas pressure (gauge)</u> | | | | |
| Calibration of pressure indicating instruments and gauges, Pressure equivalent calibration of deadweight testers. | -97 kPa to -3.5 kPa 3.5 kPa to 100 kPa 100 kPa to 700 kPa 700 kPa to 12 MPa | 0.015 % 0.014 % 0.012 % 0.010 % | | A,B |
| <u>Gas pressure (absolute)</u> | | | | |
| Calibration of pressure indicating instruments and gauges | 3.5 kPa to 130 kPa 103.5 kPa to 200 kPa 200 kPa to 800 kPa 800 kPa to 12 MPa | 0.015 % + 9 Pa 0.014 % + 25 Pa 0.012 % + 25 Pa 0.010 % + 25 Pa | | A,B |
| <u>Gas Pressure (Differential)</u> | | | | |
| Calibration of pressure indicating instruments and gauges | 2.5 kPa to 100 kPa (line pressure 1.2 MPa to 10 MPa) | 0.60 ppm/MPa of line pressure, plus 0.0080 % of differential pressure, plus 10.0 Pa | | A |



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| ELECTRICAL | | | | |
| DC Voltage | | | | |
| Generation | 0 mV to 320 mV 320 mV to 3.2 V 3.2 V to 32 V 32 V to 320 V 320 V to 1020 V | 26 ppm + 2.1 μ V 8.0 ppm + 12 μ V 9.0 ppm + 120 μ V 12 ppm + 1.2 mV 14 ppm + 6.0 mV | | A,B |
| Measurement | 0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1020 V | 18 ppm + 1.2 μ V 8.0 ppm 6.0 ppm 11 ppm 10 ppm | | A,B |
| DC Current | | | | |
| Generation | 0 μ A to 320 μ A 320 μ A to 3.2 mA 3.2 mA to 32 mA 32 mA to 320 mA 320 mA to 1.1 A 1.1 A to 3.2 A 3.2 A to 11 A 11 A to 20 A | 62 ppm + 5.0 nA 32 ppm + 50 nA 31 ppm + 500 nA 56 ppm + 5.0 μ A 200 ppm + 40 μ A 120 ppm + 100 μ A 130 ppm + 800 μ A 220 ppm + 800 μ A | | A,B |
| | 10 A to 100 A 100 A to 1000 A | 0.15 % 0.18 % | For the calibration of clamp meters only. | A,B |
| DC Current | | | | |
| Measurement | 0 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 20 A | 74 ppm + 1.4 nA 36 ppm 31 ppm 40 ppm 91 ppm 520 ppm | | A,B |
| DC Resistance | | | | |
| Generation | 0 Ω to 1 Ω 1 Ω to 10 Ω 10 Ω to 32 Ω 32 Ω to 100 Ω 100 Ω to 320 Ω 320 Ω to 1 k Ω | 220 ppm + 10 m Ω 69 ppm + 10 m Ω 73 ppm + 15 m Ω 43 ppm + 120 μ Ω 13 ppm + 120 μ Ω 9.0 ppm + 1.2 m Ω | | A,B |
| | 1 k Ω to 3.2 k Ω 3.2 k Ω to 10 k Ω 10 k Ω to 32 k Ω 32 k Ω to 100 k Ω 100 k Ω to 320 k Ω 320 k Ω to 1 M Ω | 12 ppm + 1.2 m Ω 16 ppm + 12 m Ω 15 ppm + 12 m Ω 14 ppm + 120 m Ω 11 ppm + 120 m Ω 35 ppm + 2.4 Ω | | |



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| ELECTRICAL (cont'd) | | | | |
| DC Resistance | | | | |
| Generation (cont'd) | 1 M Ω to 3.2 M Ω 3.2 M Ω to 10 M Ω 10 M Ω to 32 M Ω 32 M Ω to 100 M Ω 100 M Ω to 320 M Ω 320 M Ω to 1000 M Ω | 80 ppm + 20 Ω 220 ppm + 16 Ω 260 ppm + 170 Ω 300 ppm + 6.6 k Ω 0.093 % + 13 k Ω 0.16 % + 35 k Ω | | |
| Measurement | 0 Ω to 1 Ω 1 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2 k Ω 2 k Ω to 20 k Ω 20 k Ω to 200 k Ω 200 k Ω to 2 M Ω 2 M Ω to 20 M Ω 20 M Ω to 200 M Ω 200 M Ω to 2 G Ω | 19 ppm + 24 $\mu\Omega$ 20 ppm + 24 $\mu\Omega$ 13 ppm + 24 $\mu\Omega$ 11 ppm 10 ppm 12 ppm 28 ppm 100 ppm 500 ppm 980 ppm | | A,B |
| AC Voltage | | | | |
| Generation | 10 mV to 320 mV 45 Hz to 1 kHz 1 kHz to 10 kHz | 0.010 % + 37 μ V 0.010 % + 26 μ V | | A,B |
| | 320 mV to 3.2 V 45 Hz to 1 kHz 1 kHz to 10 kHz | 0.0070 % + 140 μ V 0.0070 % + 120 μ V | | |
| | 3.2 V to 32 V 45 Hz to 1 kHz 1 kHz to 10 kHz | 0.0080 % + 1.4 mV 0.0080 % + 1.2 mV | | |
| | 32 V to 320 V 45 Hz to 1 kHz 1 kHz to 10 kHz | 0.023 % + 14 mV 0.016 % + 12 mV | | |
| | 320 V to 1020 V 45 Hz to 1 kHz 1 kHz to 10 kHz | 0.023 % + 71 mV 0.016 % + 59 mV | | |



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| ELECTRICAL (cont'd) Measurement | 10 mV to 200 mV 20 Hz to 1 kHz 1 kHz to 10 kHz | 0.042 % + 0.20 μ V 0.035 % + 0.20 μ V | | A,B | | |
| | 200 mV to 2 V 20 Hz to 1 kHz 1 kHz to 10 kHz | 0.021 % + 2.0 μ V 0.040 % + 2.0 μ V | | | | |
| | 2 V to 20 V 20 Hz to 1 kHz 1 kHz to 10 kHz | 0.025 % + 20 μ V 0.024 % + 20 μ V | | | | |
| | 20 V to 200 V 20 Hz to 1 kHz 1 kHz to 10 kHz | 0.025 % + 120 μ V 0.026 % + 120 μ V | | | | |
| | 200 V to 1 kV 55 Hz to 1 kHz 1 kHz to 10 kHz | 0.041 % + 1.2 mV 0.050 % + 1.2 mV | | | | |
| | AC Current Generation | 10 μ A to 320 μ A 45 Hz to 1 kHz 1 kHz to 5 kHz | 0.060 % + 2.4 nA 0.11 % + 40 nA | | | A,B |
| | | 320 μ A to 3.2 mA 45 Hz to 1 kHz 1 kHz to 5 kHz | 0.024 % + 240 nA 0.027 % + 240 nA | | | |
| | | 3.2 mA to 32 mA 45 Hz to 1 kHz 1 kHz to 5 Hz | 0.021 % + 2.4 μ A 0.026 % + 2.4 μ A | | | |
| | | 32 mA to 320 mA 45 Hz to 1 kHz 1 kHz to 5 kHz | 0.058 % + 24 μ A 0.071 % + 24 μ A | | | |
| | | 320 mA to 3.2 A 45 Hz to 1 kHz 1 kHz to 5 kHz | 0.044 % + 240 μ A 0.13 % + 370 μ A | | | |
| 3.2 A to 11 A 45 Hz to 1 kHz 1 kHz to 5 kHz | | 0.056 % + 240 μ A 0.94 % + 370 μ A | | | | |
| 11 A to 20 A 45 Hz to 1 kHz 1 kHz to 5 kHz | | 0.066 % + 240 μ A 3.0 % + 1.0 mA | | | | |



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| ELECTRICAL (cont'd) | | | | |
| AC Current (cont'd) | | | | |
| Generation (cont'd) | 10 A to 100 A 45 Hz to 1 kHz 1 kHz to 5 kHz | 0.25 % 0.44 % | For the calibration of clamp meters only. | A,B |
| | 100 A to 550 A 45 Hz to 1 kHz 1 kHz to 5 kHz | 0.25 % 1.51 % | For the calibration of clamp meters only. | |
| | 100 A to 1000 A 45 Hz to 1 kHz 1 kHz to 5 kHz | 0.25 % 1.43 % | For the calibration of clamp meters only. | |
| Measurement | 10 µA to 200 µA 55 Hz to 1 kHz 1 kHz to 5 kHz | 0.030 % + 0.002 µA 0.079 % + 0.002 µA | | A,B |
| | 200 µA to 2 mA 55 Hz to 1 kHz 1 kHz to 5 kHz | 0.026 % + 0.020 µA 0.066 % + 0.020 µA | | |
| | 2 mA to 20 mA 55 Hz to 1 kHz 1 kHz to 5 kHz | 0.031 % + 0.20 µA 0.066 % + 0.20 µA | | |
| | 20 mA to 200 mA 55 Hz to 1 kHz 1 kHz to 5 kHz | 0.033 % + 2.0 µA 0.067 % + 2.0 µA | | |
| | 200 mA to 2 A 55 Hz to 1 kHz 1 kHz to 5 kHz | 0.062 % + 0.020 mA 0.331 % + 0.020 mA | | |
| | 2 A to 20 A 55 Hz to 1 kHz 1 kHz to 5 kHz | 0.16 % 0.34 % | | |
| AC Resistance | 55 Hz to 1 kHz 1 mΩ to 10 mΩ 10 mΩ to 100 mΩ 100 mΩ to 1 Ω 1 Ω to 10 Ω 10 Ω to 100 Ω | 0.080 % 0.071 % 0.071 % 0.086 % 0.051 % | | A,B |
| Oscilloscopes | | | | A,B |
| Vertical deflection coefficients: | 1 kHz 5 mV to 50 mV 50 mV to 120 V | 1.2 % 0.40 % | | |
| Horizontal deflection coefficients: | 5 s/div to 5 ns/div | 0.40 % | | |



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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 |
|--|--|--|---|------------------|
| Temperature indicators, calibration by electrical simulation | | | | A,B |
| Base metal thermocouple | - 200 °C to + 1600 °C | 0.20 °C | Including cold junction compensation. | |
| Noble metal thermocouple | - 200 °C to + 1760 °C | 0.70 °C | | |
| Base metal thermocouple | - 200 °C to + 1600 °C | 0.20 °C | Excluding cold junction compensation. | |
| Noble metal thermocouple | - 200 °C to + 1760 °C | 0.70 °C | | |
| Cold junction compensation | 0 °C to 50 °C | 0.10 °C | This is a supplementary measurement for monitoring temperature in air. | A,B |
| Resistance sensors | - 200 °C to 0 °C 0 ° to 850 °C | 0.150 °C 0.050 °C | | |
| Frequency | 1 Hz to 1.35 GHz | 4.0 in 10 ⁸ | | A,B |
| Time Interval | 0.05 s to 60 min | 0.050 s | | A,B |
| Tachometers (Optical) | 100 rpm to 50000 rpm | 2.0 rpm | | A,B |
| TEMPERATURE | | | | |
| Resistance thermometers | -25 °C to 0 °C 0 °C 0 °C to 50 °C 50 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C | 0.070 °C 0.022 °C 0.060 °C 0.070 °C 0.14 °C 0.37 °C 0.50 °C | | |
| Thermocouples | -25 °C to 0 °C 0 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C | 0.40 °C 0.50 °C 0.50 °C 0.70 °C 0.80 °C | | |
| Temperature indicators with the following probe types | | | | |
| Resistance (eg Pt100) | -25 °C to 0 °C 0 °C 0 °C to 50 °C 50 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C | 0.070 °C 0.022 °C 0.060 °C 0.070 °C 0.14 °C 0.37 °C 0.50 °C | | |
| Thermocouple | -25 °C to 0 °C 0 °C to 140 °C 140 °C to 185 °C 185 °C to 320 °C 320 °C to 420 °C | 0.40 °C 0.50 °C 0.50 °C 0.70 °C 0.80 °C | | |



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United Kingdom Accreditation Service
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Rhopoint Metrology Limited
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Calibration performed by the Organisation at the locations specified

| Measured Quantity Instrument or Gauge | Range | Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k=2$) | Remarks | Location Code |
|--|---|--|---|------------------|
| MASS Weights and artefacts | 25 000 g 20 000 g 10 000 g 5 000 g 2 000 g 1 000 g 500 g 200 g 100 g 50 g 20 g 10 g 5 g 2 g 1 g 0.5 g 0.2 g 0.1 g 0.05 g 0.02 g 0.01 g 0.005 g 0.002 g 0.001 g | 250 mg 200 mg 100 mg 50 mg 20 mg 10 mg 5 mg 2 mg 1 mg 0.6 mg 0.5 mg 0.4 mg 0.3 mg 0.24 mg 0.20 mg 0.16 mg 0.12 mg 0.10 mg 0.08 mg 0.06 mg 0.05 mg 0.04 mg 0.04 mg 0.04 mg | Notes 1. Calibrations can be given in other units as required. 2. Intermediate values can be calibrated to an uncertainty interpolated from the next higher and lower values in the table. | A |
| NON AUTOMATIC WEIGHING MACHINES Lab & Site Electronic, single pan | 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg 50 kg 100 kg 107 kg | 0.03 mg 0.03 mg 0.04 mg 0.05 mg 0.06 mg 0.07 mg 0.10 mg 0.12 mg 0.18 mg 0.36 mg 0.90 mg 1.8 mg 7.2 mg 18 mg 36.1 mg 72.4 mg 1.8 g 2.5 g 2.6 g | Notes 1. Weights are available in OIML Class: E2 from 200 mg to 500 g, max. grouped load 1 kg F1 from 1 g to 20 kg, max. grouped load 55 kg. M1 from 5 kg to 20 kg, max. grouped load 107 kg 2. Other loads within the overall listed range may also be used | A, B |
| END | | | | |