



RAMS Ltd trading as CALAB

Scope of Accreditation

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ACCREDITATION INFORMATION - CALIBRATION LABORATORY

Accreditation No.	019
Accreditation Certificate No.	019/14
Accredited according to	EN ISO/IEC 17025:2017
Accreditation Scope No.	S019/14
Date of issue of this Scope	Thursday, 27 July 2023

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Issue No: S019/14

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CALIBRATION LABORATORY

Laboratory Locations

Location Details	Activity	Location Code
Address 29, Triq Leli Camilleri, Zurrieq ZRQ1740, Malta	Calibration of pressure, humidity, electrical and temperature equipment	A

Site activities performed away from the locations listed above

Location Details	Activity	Location Code
Customers' Sites or Premises	Calibration of pressure, humidity, electrical and temperature equipment	B



ISO/IEC 17025
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Measured Quantity Instrument or Gauge	Range:	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Calibration or measurement method or procedure	Remarks:	Loc. code
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Electrical

Notes: n/a

Direct Voltage and Direct Current for Transmitter/Transducer Output	(0 to 24) mA	$1.2 \cdot 10^{-4} \cdot I + 2.1 \mu\text{A}$	All electrical measurements a carried out using the method of direct comparison or transfer to laboratory reference standards unless otherwise determined in the remarks column.	Generating	A/B
Direct Voltage and Direct Current for Transmitter/Transducer Output	(0 to 30) V	$1.2 \cdot 10^{-4} \cdot I + 1.8 \mu\text{A}$	All electrical measurements a carried out using the method of direct comparison or transfer to laboratory reference standards unless otherwise determined in the remarks column.	Measuring	A/B
Direct Voltage and Direct Current for Transmitter/Transducer Output	(0 to 20) mA (20 to 24) mA	$1.3 \cdot 10^{-4} \cdot I + 2.3 \mu\text{A}$ $1.4 \cdot 10^{-4} \cdot I + 4.3 \mu\text{A}$	All electrical measurements a carried out using the method of direct comparison or transfer to laboratory reference standards unless otherwise determined in the remarks column.	Measuring	A/B



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Humidity

Notes: n/a

Dew Point	-30°C to 60°C	0.26°C	Method consistent with DKD-R 5-8:2019		A/B
Hygrometers	At 0°C to 10 °C 20 %RH to 35 %RH 36 %RH to 65 %RH 66 %RH to 95 %RH	At 0°C to 10 °C 0.38%RH to 0.62%RH 0.64%RH to 1.1%RH 1.1%RH to 1.6%RH	Method consistent with DKD-R 5-8:2019		A
Hygrometers	At 10°C to 20°C 10 %RH to 35 %RH 36 %RH to 65 %RH 66 %RH to 95 %RH	At 10°C to 20°C 0.24%RH to 0.62%RH 0.64%RH to 1.1%RH 1.1%RH to 1.6%RH	Method consistent with DKD-R 5-8:2019		A
Hygrometers	At 20°C to 60°C 5.0 %RH to 35 %RH 36 %RH to 65 %RH 66 %RH to 95 %RH	At 20°C to 60°C 0.19%RH to 0.62%RH 0.64%RH to 1.1%RH 1.1%RH to 1.6%RH	Method consistent with DKD-R 5-8:2019		A
Hygrometers	At 0°C to 10°C 20 %RH to 35 %RH 36 %RH to 65 %RH 66 %RH to 95 %RH	At 0°C to 10°C 0.66%RH to 0.87%RH 0.89%RH to 1.4%RH 1.4%RH to 1.9%RH	Method consistent with DKD-R 5-8:2019		B



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Hygrometers	At 10°C to 20°C 10 %RH to 35 %RH 36 %RH to 65 %RH 66 %RH to 95 %RH	At 10°C to 20°C 0.56%RH to 0.87%RH 0.89%RH to 1.4%RH 1.4%RH to 1.9%RH	Method consistent with DKD-R 5-8:2019		B
Hygrometers	At 20°C to 60°C 5.0 %rh to 35 %rh 35 %rh to 65 %rh 65 %rh to 95 %rh	At 20°C to 60°C 0.54%RH to 0.87%RH 0.89%RH to 1.4%RH 1.4%RH to 1.9%RH	Method consistent with DKD-R 5-8:2019		B
Humidity controlled chambers, including associated recorders, indicators and controllers	At -10°C to 0°C 20 %RH to 99 %RH	At -10°C to 0°C 0.4%RH to 1.8%RH	Method consistent with EURAMET/CG-20/v.5: 2017	With Dew Point Mirror Multi Point Temperature measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B
Humidity controlled chambers, including associated recorders, indicators and controllers	At 0°C to 10°C 10 %RH to 99 %RH	At 0°C to 10°C 0.25%RH to 1.8%RH	Method consistent with EURAMET/CG-20/v.5: 2017	With Dew Point Mirror Multi Point Temperature measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B
Humidity controlled chambers, including associated recorders, indicators and controllers	At 10°C to 90°C 5 %RH to 99 %RH	At 10°C to 90°C 0.19%RH to 1.8%RH	Method consistent with EURAMET/CG-20/v.5: 2017	With Dew Point Mirror Multi Point Temperature measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B



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Measured Quantity Instrument or Gauge	Range:	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Calibration or measurement method or procedure	Remarks:	Loc. code
Humidity controlled chambers, including associated recorders, indicators and controllers	At 0°C to 10°C 20 %RH to 95 %RH	At 0°C to 10°C 1.3%RH to 2.5%RH	Method consistent with EURAMET/CG-20/v.5: 2017	With Dataloggers Multi Point measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B
Humidity controlled chambers, including associated recorders, indicators and controllers	At 10°C to 20°C 10 %RH to 95 %RH	At 10°C to 20°C 1.3%RH to 2.5%RH	Method consistent with EURAMET/CG-20/v.5: 2017	With Dataloggers Multi Point measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B
Humidity controlled chambers, including associated recorders, indicators and controllers	At 20°C to 60°C 5 %RH to 95 %RH	At 20°C to 60°C 1.3%RH to 2.5%RH	Method consistent with EURAMET/CG-20/v.5: 2017	With Dataloggers Multi Point measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B

Pressure

This CMC does not include the electrical measurement uncertainty for pressure devices with an electrical output

Calibration of pressure measuring instruments, switches and gauges	(0 to 108) kPa	0.004% RDG (of the reading) + 0.040kPa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(0 to 200) kPa	0.006% RDG (of the reading) + 0.088kPa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas and Hydraulic Pressure (Absolute)	A/B

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Measured Quantity Instrument or Gauge	Range:	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Calibration or measurement method or procedure	Remarks:	Loc. code
Calibration of pressure measuring instruments, switches and gauges	(200 to 700) kPa	0.006%RDG + 0.18kPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(0.7 to 2) MPa	0.0057% RDG (of the reading) + 0.59kPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(2 to 7) MPa	0.0057% RDG (of the reading) + 0.0017MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(7 to 20) MPa	0.005% RDG (of the reading) + 0.0035MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(20 to 70) MPa	0.0063% RDG (of the reading) + 0.011MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(70 to 100) Mpa	0.006% RDG (of the reading) + 0.033MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Hydraulic Pressure (Absolute)	A/B



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Measured Quantity Instrument or Gauge	Range:	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Calibration or measurement method or procedure	Remarks:	Loc. code
Calibration of pressure measuring instruments, switches and gauges	-1000 Pa to 1000 Pa	1.3Pa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	-1000 Pa to -7500 Pa	2.9 Pa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	1000 Pa to 7500 Pa	2.9 Pa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(-95 to 200) kPa	0.004% RDG (of the reading) + 0.078kPa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(200 to 700) kPa	0.0042% RDG (of the reading) + 0.17kPa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauge	(0.7 to 2) MPa	0.004% RDG (of the reading) + 0.59kPa	Method consistent with EURAMET/CG-17/v.4.1: 2022	Gas and Hydraulic Pressure (Gauge)	A/B



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Calibration of pressure measuring instruments, switches and gauges	(2 to 7) MPa	0.004% RDG (of the reading) + 0.0017MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(7 to 20) MPa	0.0029% RDG (of the reading) + 0.0035MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(20 to 70) MPa	0.0047% RDG (of the reading) + 0.011MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(70 to 100) Mpa	0.005% RDG (of the reading) + 0.033MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Hydraulic Pressure (Gauge)	A/B

Temperature

Notes: n/a

Temperature indicators and recorders, with temperature sensor(s) and resistance thermometers	-90°C to 155°C 155°C to 650°C	0.088°C 0.20°C	Unless otherwise stated calibration by comparison with reference instruments, in a fluid bath or Metal media baths	B
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Measured Quantity Instrument or Gauge	Range:	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Calibration or measurement method or procedure	Remarks:	Loc. code
Thermocouple thermometer connected to a suitable indicator	-90°C to 155°C 155°C to 650°C	0.22°C 0.30°C	Method consistent with EURAMET/CG- 08/v.3.1: 2020. Unless otherwise stated calibration by comparison with reference instruments, in a fluid bath or metal media baths	Including CJC compensation	B
Temperature indicators and recorders, with temperature sensor(s) and resistance thermometers	-90°C to 155°C 155°C to 650°C	0.042°C 0.16°C	Unless otherwise stated calibration by comparison with reference instruments, in a fluid bath or Metal media baths		A
Thermocouple thermometer connected to a suitable indicator	-90°C to 155°C 155°C to 650°C	0.19°C 0.25°C	Method consistent with EURAMET/CG- 08/v.3.1: 2020. Unless otherwise stated calibration by comparison with reference instruments, in a fluid bath or Metal media baths	Including CJC compensation	A
Temperature in air chamber	-25°C to 0°C 0°C to 60°C	0.26°C 0.13°C	Unless otherwise stated calibration by comparison with reference instruments, in an air chamber		A

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Measured Quantity Instrument or Gauge	Range:	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Calibration or measurement method or procedure	Remarks:	Loc. code
Temperature in air chamber	-25°C to 0°C 0°C to 60°C	0.26°C 0.15°C	Unless otherwise stated calibration by comparison with reference instruments, in an air chamber		B
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	-90°C to 150°C	0.16°C	Method consistent with EURAMET/CG 20/V.5: 2017	With Resistance probes - Multi Point measurement An additional uncertainty component will normally be necessary for the environmental conditions	B
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	-90°C to 150°C	0.36°C	Method consistent with EURAMET/CG 20/V.5: 2017	With Thermocouples - Multi Point measurement An additional uncertainty component will normally be necessary for the environmental conditions	B
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	-25°C to 0°C	0.34°C	Method consistent with EURAMET/CG-20/V.5:2017	With Dataloggers Multi Point measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	0°C to 60°C	0.23°C	Method consistent with EURAMET/CG-20/V.5: 2017	With Dataloggers Multi Point measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B



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Measured Quantity Instrument or Gauge	Range:	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty (k = 2)	Calibration or measurement method or procedure	Remarks:	Loc. code
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	150°C to 350°C	0.54°C	Method consistent with EURAMET/CG-20/v.5:2017	With Thermocouples - Multi Point measurement An additional uncertainty component will normally be necessary for the environmental conditions	B
Temperature Calibration by simulation - Resistance (PT100 Fixed values)	-100°C 0°C 30°C 60°C 100°C 200°C 400°C 800°C	0.02°C 0.02°C 0.02°C 0.02°C 0.02°C 0.02°C 0.02°C	Method consistent with EURAMET/CG-11/v.2: 2011		A
Temperature Calibration by simulation - Resistance (PT 25)	-200°C to 0°C 0°C to 800°C	0.61°C 0.72°C	Method consistent with EURAMET/CG-11/v.2: 2011	Any temperature in between this range	A
Temperature Calibration by simulation - Resistance (PT 100)	-200°C to 0°C 0°C to 800°C	0.25°C 0.67°C	Method consistent with EURAMET/CG-11/v.2: 2011	Any temperature in between this range	A
Temperature Calibration by simulation - Resistance (PT 250)	-200°C to 0°C 0°C to 800°C	0.35°C 0.40°C	Method consistent with EURAMET/CG-11/v.2: 2011	Any temperature in between this range	A



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Temperature Calibration by simulation - Resistance (PT 500)	-200°C to 260°C 260°C to 500°C	0.23°C 1.06°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Any temperature in between this range	A
Temperature Calibration by simulation - Resistance (PT 1000)	-200°C to 0°C 0°C to 800°C	0.22°C 0.56°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Any temperature in between this range	A
Temperature Calibration by simulation - Thermocouple Type C	0°C to 150°C 150°C to 650°C 650°C to 1000°C 1000°C to 1800°C 1800°C to 2316°C	0.45°C 0.41°C 0.45°C 0.61°C 0.83°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type E	-250°C to -100°C -100°C to -25°C -25°C to 350°C 350°C to 650°C 650°C to 1000°C	0.7°C 0.26°C 0.25°C 0.27°C 0.29°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type N	-200°C to -100°C -100°C to -25°C -25°C to 120°C 120°C to 410°C 410°C to 1300°C	0.54°C 0.33°C 0.3°C 0.3°C 0.37°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Including CJC compensation Temperature can be sourced or measured	A

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Temperature Calibration by simulation - Thermocouple Type S	0°C to 250°C 250°C to 1000°C 1000°C to 1760°C	0.96°C 0.57°C 0.65°C	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type J	-210°C to -100°C -100°C to -30°C -30°C to 150°C 150°C to 760°C 760°C to 1200°C	0.27°C 0.14°C 0.12°C 0.17°C 0.23°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type J	-210°C to -100°C -100°C to -30°C -30°C to 150°C 150°C to 760°C 760°C to 1200°C	0.35°C 0.27°C 0.25°C 0.28°C 0.32°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type B	600°C to 800°C 800°C to 1000°C 1000°C to 1550°C 1550°C to 1820°C	0.88 °C 0.8°C 0.68°C 0.69°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type B	600°C to 800°C 800°C to 1000°C 1000°C to 1550°C 1550°C to 1820°C	0.86°C 0.76°C 0.64°C 0.65°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A



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Temperature Calibration by simulation - Thermocouple Type R	0°C to 250°C 250°C to 1000°C 1000°C to 1760°C	0.96°C 0.57°C 0.65°C	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type N	-200°C to -100°C -100°C to -25°C -25°C to 120°C 120°C to 410°C 410°C to 1300°C	0.5°C 0.25°C 0.21°C 0.2°C 0.29°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type K	-200°C to -100°C -100°C to -25°C -25°C to 120°C 120°C to 1000°C 1000°C to 1370°C	0.39°C 0.29°C 0.27°C 0.33°C 0.38°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type K	-200°C to -100°C -100°C to -25°C -25°C to 120°C 120°C to 1000°C 1000°C to 1370°C	0.32°C 0.19°C 0.14°C 0.24°C 0.31°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type T	-250°C to -150°C -150°C to -25°C 0°C to 120°C 120°C to 400°C	0.75 0.26 0.25 0.27	Method consistent with EURAMET/CG- 11/v.2: 2011	Including CJC compensation Temperature can be sourced or measured	A

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Temperature Calibration by simulation - Thermocouple Type T	-250°C to -150°C -150°C to -25°C 0°C to 120°C 120°C to 400°C	0.72°C 0.13°C 0.12°C 0.14°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type R	0°C to 250°C 250°C to 1000°C 1000°C to 1760°C	0.94°C 0.53°C 0.61°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type E	-250°C to -100°C -100°C to -25°C -25°C to 350°C 350°C to 650°C 650°C to 1000°C	0.66°C 0.13°C 0.12°C 0.15°C 0.18°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type C	0°C to 150°C 150°C to 650°C 650°C to 1000°C 1000°C to 1800°C 1800°C to 2316°C	0.39°C 0.34°C 0.4°C 0.56°C 0.8°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Thermocouple Type S	0°C to 250°C 250°C to 1000°C 1000°C to 1760°C	0.94°C 0.53°C 0.61°C	Method consistent with EURAMET/CG- 11/v.2: 2011	Excluding CJC compensation Temperature can be sourced or measured	A



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Metal Block Calibrators and portable liquid baths	-196°C to 300°C	0.027°C	Method consistent with EURAMET/CG-13/V4:2017		A
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Metal Block Calibrators and portable liquid baths	0°C	0.014°C	Method consistent with EURAMET/CG-13/V.4: 2017		A
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Metal Block Calibrators and portable liquid baths	300°C to 660°C	0.044°C	Method consistent with EURAMET/CG-13/V.4:2017		A
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END OF SCOPE

This scope of accreditation may be revised from time to time by NAB-MALTA. The most recent version of this scope may be found from the NAB-MALTA website. Nevertheless, as technical issues may hinder the immediate update of the website, and in case of any difficulty, contact the NAB-MALTA on +356 23952510 or by sending an email to 'info@nabmalta.org.mt'.

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