



ISO/IEC 17025
ACCREDITED
CALIBRATION
N° 019

RAMS Ltd trading as CALAB

Scope of Accreditation

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ACCREDITATION INFORMATION - CALIBRATION LABORATORY

Accreditation No.	019
Accreditation Certificate No.	019/12
Accredited according to	EN ISO/IEC 17025:2017
Accreditation Scope No.	S019/12
Date of issue of this Scope	15 July 2021

SCOPE OF ACCREDITATION

Issue No: S019/12

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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 and temperature equipment	A

Site activities performed away from the locations listed above

Location Details	Activity	Location Code
Customers' Sites or Premises	Calibration	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
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Electrical

Notes: n/a

Direct Voltage and Direct Current for Transmitter/Transducer Output	(0 to 30) V	117 ppm + 1.84mV	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	126 ppm + 2.30 uA 137ppm + 4.25 uA	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 24) mA	121 ppm + 2.12 uA	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



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Humidity

Notes: n/a

Dew Point	-30°C to 60°C	0.26°C	Method consistent with DKD-R 5-7:2018		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 1.12%RH 1.14%RH to 1.63%RH	Method consistent with DKD-R 5-7:2018		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 1.12%RH 1.14%RH to 1.63%RH	Method consistent with DKD-R 5-7:2018		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 1.12%RH 1.14%RH to 1.63%RH	Method consistent with DKD-R 5-7:2018		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 1.38%RH 1.40%RH to 1.94%RH	Method consistent with DKD-R 5-7:2018		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 1.38%RH 1.40%RH to 1.94%RH	Method consistent with DKD-R 5-7:2018		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 1.38%RH 1.40%RH to 1.94%RH	Method consistent with DKD-R 5-7:2018		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 0.40%RH to 1.80%RH	Method consistent with EURAMET/CG-20/v.4: 2015	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 1.80%RH	Method consistent with EURAMET/CG-20/v.4: 2015	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 1.80%RH	Method consistent with EURAMET/CG-20/v.4: 2015	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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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 1.34%RH to 2.50%RH	Method consistent with EURAMET/CG-20/v.4: 2015	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 1.28%RH to 2.50%RH	Method consistent with EURAMET/CG-20/v.4: 2015	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 1.26%RH to 2.50%RH	Method consistent with EURAMET/CG-20/v.4: 2015	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	(20 to 70) MPa	0.0047%RDG + 0.011MPa	Method consistent with EURAMET/CG-17/v.4: 2019	Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(0 to 108) kPa	0.004%RDG + 0.040kPa	Method consistent with EURAMET/CG-17/v.4: 2019	Gas Pressure (Absolute)	A/B



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Calibration of pressure measuring instruments, switches and gauges	(0 to 200) kPa	0.006%RDG + 0.088kPa	Method consistent with EURAMET/CG- 17/v.04: 2019	Gas and Hydraulic Pressure (Absolute)	A/B
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: 2019	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(0.7 to 2) MPa	0.0057%RDG + 0.59kPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(2 to 7) MPa	0.0057%RDG + 0.0017MPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(7 to 20) MPa	0.005%RDG + 0.0035MPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas and Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(20 to 70) MPa	0.0063%RDG + 0.011MPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Hydraulic Pressure (Absolute)	A/B



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Calibration of pressure measuring instruments, switches and gauges	(70 to 100) Mpa	0.006%RDG + 0.033MPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Hydraulic Pressure (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	± 1000 Pa to ± 7500 Pa	2.90 Pa	Method consistent with EURAMET/CG- 17/v.04: 2019	Gas Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	± 1000 Pa	1.28Pa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(-95 to 200) kPa	0.004%RDG + 0.078kPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(200 to 700) kPa	0.0042%RDG + 0.17kPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauge	(0.7 to 2) MPa	0.004%RDG + 0.59kPa	Method consistent with EURAMET/CG- 17/v.4: 2019	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 + 0.0017MPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(7 to 20) MPa	0.0029%RDG + 0.0035MPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Gas and Hydraulic Pressure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	(70 to 100) Mpa	0.005%RDG + 0.033MPa	Method consistent with EURAMET/CG- 17/v.4: 2019	Hydraulic Pressure (Gauge)	A/B

Temperature

Notes: n/a

Temperature indicators and recorders, with temperature sensor(s)	-90°C to 150°C 150°C to 660°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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Temperature indicators and recorders, with temperature sensor(s)	-90°C to 150°C 150°C to 660°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
Resistance Thermometer connected to a suitable indicator	-90°C to 150°C 150°C to 660°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
Resistance Thermometer connected to a suitable indicator	-90°C to 150°C 150°C to 660°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 150°C 150°C to 660°C	0.28°C 0.34°C	Method consistent with EURAMET/CG- 08/v.1: 2007. Unless otherwise stated calibration by comparison with reference instruments, in a fluid bath or Metal media baths	Including CJC compensation	A



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Thermocouple thermometer connected to a suitable indicator	-95°C to 150°C 150°C to 660°C	0.29°C 0.38°C	Method consistent with EURAMET/CG-08/v.1: 2007. Unless otherwise stated calibration by comparison with reference instruments, in a fluid bath or metal media baths	Including CJC compensation	B
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
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	-90°C to 150°C	0.16°C	Method consistent with EURAMET/CG 20/V.4: 2015	With Resistance probes - Multi Point measurement An additional uncertainty component will normally be necessary for the environmental conditions	B



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Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated	-90°C to 150°C	0.36°C	Method consistent with EURAMET/CG 20/V.4: 2015	With Thermocouples - Multi Point measurement An additional uncertainty component will normally be necessary for the environmental conditions	B
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 0.27 0.25 0.28 0.32	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation Temperature can be sourced or measured	A
Temperature Calibration by simulation - Resistance	-200°C to 800°C	0.197°C	Method consistent with EURAMET/CG- 11/v.1: 2007	Any temperature in between this range	A
Temperature Calibration by simulation - Resistance	-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 0.02°C	Method consistent with EURAMET/CG- 11/v.1: 2007		A



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Temperature Calibration by simulation - Thermocouple Type C	0°C to 150°C	0.45	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation	A
	150°C to 650°C	0.41			
	650°C to 1000°C	0.45			
	1000°C to 1800°C	0.61			
	1800°C to 2316°C	0.83			
Temperature Calibration by simulation - Thermocouple Type E	-250°C to -100°C	0.697	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation	A
	-100°C to -25°C	0.26			
	-25°C to 350°C	0.25			
	350°C to 650°C	0.27			
	650°C to 1000°C	0.29			
Temperature Calibration by simulation - Thermocouple Type N	-200°C to -100°C	0.54	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation	A
	-100°C to -25°C	0.33			
	-25°C to 120°C	0.3			
	120°C to 410°C	0.3			
Temperature Calibration by simulation - Thermocouple Type B	600°C to 800°C	0.88	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation	A
	800°C to 1000°C	0.8			
	1000°C to 1550°C	0.68			
	1550°C to 1820°C	0.69			
Temperature Calibration by simulation - Thermocouple Type S	0°C to 250°C	0.96	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation	A
	250°C to 1000°C	0.57			
	1000°C to 1760°C	0.65			



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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 0.57 0.65	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 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.1: 2007	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	0.39 0.29 0.27 0.33 0.38	Method consistent with EURAMET/CG- 11/v.1: 2007	Including CJC compensation Temperature can be sourced or measured	A
Metal Block Calibrators and portable liquid baths	-196°C to 300°C	0.03°C	Method consistent with EURAMET/CG- 13/v.3:2015		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 0.34 0.4 0.56 0.8	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A

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Temperature Calibration by simulation - Thermocouple Type E	-250°C to -100°C	0.661	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	-100°C to -25°C	0.13			
	-25°C to 350°C	0.12			
	350°C to 650°C	0.15			
	650°C to 1000°C	0.18			
Temperature Calibration by simulation - Thermocouple Type N	-200°C to -100°C	0.5	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	-100°C to -25°C	0.25			
	-25°C to 120°C	0.21			
	120°C to 410°C	0.2			
Temperature Calibration by simulation - Thermocouple Type B	600°C to 800°C	0.86	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	800°C to 1000°C	0.76			
	1000°C to 1550°C	0.64			
	1550°C to 1820°C	0.65			
Temperature Calibration by simulation - Thermocouple Type S	0°C to 250°C	0.94	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	250°C to 1000°C	0.53			
	1000°C to 1760°C	0.61			
Temperature Calibration by simulation - Thermocouple Type R	0°C to 250°C	0.94	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	250°C to 1000°C	0.53			
	1000°C to 1760°C	0.61			



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Temperature Calibration by simulation - Thermocouple Type T	-250°C to -150°C	0.72	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	-150°C to -25°C	0.13			
	0°C to 120°C	0.12			
	120°C to 400°C	0.14			
Temperature Calibration by simulation - Thermocouple Type K	-200°C to -100°C	0.32	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	-100°C to -25°C	0.19			
	-25°C to 120°C	0.14			
	120°C to 1000°C	0.24			
	1000°C to 1370°C	0.31			
Temperature Calibration by simulation - Thermocouple Type J	-210°C to -100°C	0.27	Method consistent with EURAMET/CG- 11/v.1: 2007	Excluding CJC compensation Temperature can be sourced or measured	A
	-100°C to -30°C	0.14			
	-30°C to 150°C	0.12			
	150°C to 760°C	0.17			
	760°C to 1200°C	0.23			
Metal Block Calibrators and portable liquid baths	0°C	0.014°C	Method consistent with EURAMET/CG- 13/V.3: 2015		A
Metal Block Calibrators and portable liquid baths	300°C to 660°C	0.05°C	Method consistent with EURAMET/CG- 13/V.3:2015		A



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Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated	150°C to 350°C	0.54°C	Method consistent with EURAMET/CG-20/v.4:2015	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	-25°C to 0°C	0.34°C	Method consistent with EURAMET/CG-20/v.4:2015	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	0°C to 60°C	0.23°C	Method consistent with EURAMET/CG-20/v.4: 2015	With Dataloggers Multi Point measurement. An additional uncertainty component will normally be necessary for the environmental conditions	B

END OF SCOPE

This scope of accreditation may be revised from time to time by NAB-MALTA. To obtain an up-to-date scope contact NAB-MALTA on +356 23952510 (info@nabmalta.org.mt).