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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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### **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
NI A D		

### 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	В



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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.

**Electrical** 

Notes: n/a

Direct Voltage and Direct Current for Transmitter/Transducer Output (0 to 24) mA

1.2\*10(-4)\*I + 2.1 µA

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\*10(-4)\*I + 1.8 µA

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\*10(-4)\*I + 2.3 μA 1.4\*10(-4)\*I + 4.3 μA 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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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.

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	А
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	А
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	В



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Measured Quantity Instrument or Gauge	Range:	Mea Capal Expre Ex	eration and surement pility (CMC) essed as an expanded eainty (k = 2)	measu meth	ation or F rement od or edure	Remarks:	Loc. code
Hygrometers	At 10°C to 20 10 %RH to 35 36 %RH to 65 66 %RH to 95	%RH 0.56% %RH 0.89%	10°C to 20°C RH to 0.87%RH 6RH to 1.4%RH RH to 1.9%RH	Method con with DKD-R			В
Hygrometers	At 20°C to 60 5.0 %rh to 35 35 %rh to 65 65 %rh to 95	%rh 0.54% %rh 0.89%	20°C to 60°C RH to 0.87%RH 6RH to 1.4%RH RH to 1.9%RH	Method con with DKD-R			В
Humidity controlled chambers, including associated recorders, indicators and controllers	At -10°C to 0 20 %RH to 99		-10°C to 0°C RH to 1.8%RH	Method con with EURAI 20/v.5: 2017	MET/CG- Multi F measu An ad compo be nec	Dew Point Mirror Point Temperature urement.  ditional uncertainty conent will normally cessary for the nmental conditions	
Humidity controlled chambers, including associated recorders, indicators and controllers	At 0°C to 10 10 %RH to 99	-	0°C to 10°C 6RH to 1.8%RH	Method con with EURAI 20/v.5: 2017	MET/CG- Multi F measu An ad compo be nec	Dew Point Mirror Point Temperature urement. ditional uncertainty pnent will normally cessary for the nmental conditions	
Humidity controlled chambers, including associated recorders, indicators and controllers	At 10°C to 90 5 %RH to 99 °		10°C to 90°C 6RH to 1.8%RH	Method con with EURAI 20/v.5: 2017	MET/CG- Multi F measu An ad compo be neo	Dew Point Mirror Point Temperature urement. ditional uncertainty pnent will normally cessary for the nmental conditions	′



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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 condition	,
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 condition	
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 condition	,
Pressure					
This CMC does not include the	e electrical measurer	nent uncertainty for pressu	ure devices with an electi	rical 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:	Meas Capab Expre Ex	ration and surement vility (CMC) ssed as an panded ainty (k = 2)	Calibration or measurement method or procedure	R	emarks:	Loc. code
Calibration of pressure measuring instruments, switches and gauges	(200 to 700) ł	kPa 0.006%	RDG + 0.18kPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022		nd Hydraulic re (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(0.7 to 2) MF		% RDG (of the ng) + 0.59kPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022		nd Hydraulic re (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(2 to 7) MP	a 0.0057 reading	% RDG (of the )) + 0.0017MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022		nd Hydraulic re (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(7 to 20) MF		% RDG (of the )) + 0.0035MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022		nd Hydraulic re (Absolute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(20 to 70) MI		% RDG (of the g) + 0.011MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Hydrau (Absoli	ilic Pressure ute)	A/B
Calibration of pressure measuring instruments, switches and gauges	(70 to 100) N		% RDG (of the g) + 0.033MPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Hydrau (Absoli	ilic Pressure ute)	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	R	emarks:	Loc. code
Calibration of pressure measuring instruments, switches and gauges	-1000 Pa to 10	000 Pa	1.3Pa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas Pr	essure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	-1000 Pa to - Pa	7500	2.9 Pa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas Pr	essure (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauges	1000 Pa to 75	00 Pa	2.9 Pa	Method consistent with EURAMET/CG- 17/v.4.1: 2022	Gas Pr	essure (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 ar Pressu	nd Hydraulic re (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		nd Hydraulic re (Gauge)	A/B
Calibration of pressure measuring instruments, switches and gauge	(0.7 to 2) M	Pa	0.004% RDG (of the reading) + 0.59kPa	Method consistent with EURAMET/CG- 17/v.4.1: 2022		nd Hydraulic re (Gauge)	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	(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		

IN.			Ph. /2 /	N		
Temperature						
Notes: n/a						
Temperature indicators a	nd -90°C to	155°C	0.088°C	Unless otherwise	e	В
recorders, with temperatu		650°C	0.20°C	stated calibration	n by	

-90°C to 155°C 0.088°C Unless otherwise
155°C to 650°C 0.20°C stated calibration by comparison with reference instruments, in a fluid bath or Metal media baths

sensor(s) and resistance

thermometers



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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	В
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		Α
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	Α
Temperature in air	-25°C to 0°C	0.26°C	Unless otherwise	A	Α
chamber	0°C to 60°C	0.13°C	stated calibration by comparison with reference instruments, in an air chamber		٨



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Measured Quantity Instrument or Gauge	Range:	Mea Capal Expre Ex	oration and asurement bility (CMC) essed as an epanded tainty (k = 2)	Calibration or measurement method or procedure	R	emarks:	Loc. code
Temperature in air chamber	-25°C to 0° 0°C to 60°		0.26°C 0.15°C	Unless otherwise stated calibration by comparison with reference instruments, in an air chamber			В
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	-90°C to 150	oc	0.16°C	Method consistent with EURAMET/CG 20/V.5: 2017	Probes Multi P measu  An add uncerta will not necess	oint rement	В
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	-90°C to 150	0°C	0.36°C	Method consistent with EURAMET/CG 20/V.5: 2017	Multi Point n An add uncerta will non necess	hermocouples - neasurement litional ainty component mally be eary for the amental conditions	B
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	-25°C to 0°	B-	0.34°C	Method consistent with EURAMET/CG- 20/v.5:2017	An add uncerta will not necess		B
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	0°C to 60°	С	0.23°C	Method consistent with EURAMET/CG- 20/v.5: 2017	An add uncerta will not necess	ataloggers Multi neasurement. litional ainty component mally be ary for the amental conditions	B



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Measured Quantity Instrument or Gauge	Range:	Meası Capabil Express Exp	ation and urement lity (CMC) sed as an anded inty (k = 2)	Calibration or measurement method or procedure	R	emarks:	Loc. code
Temperature controlled fridges, freezers, incubators, autoclaves, ovens and environmental chambers / rooms, including associated recorders,	150°C to 350°	ec c		Method consistent with EURAMET/CG- 20/v.5:2017	Multi Point n An add uncerta will nor necess	neasurement litional ainty component mally be eary for the amental conditions	В
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 0 0 0	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			Method consistent with EURAMET/CG- 11/v.2: 2011		mperature in n this range	Α
Temperature Calibration by simulation - Resistance (PT 100)	-200°C to 0°C 0°C to 800°C		).67°C	Method consistent with EURAMET/CG- 11/v.2: 2011		mperature in in this range	A
Temperature Calibration by simulation - Resistance (PT 250)	-200°C to 0°C 0°C to 800°C			Method consistent with EURAMET/CG- 11/v.2: 2011		mperature in n this range	Α



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Measured Quantity Instrument or Gauge	Range:	Me Capa Expi	ibration and easurement ability (CMC) ressed as an Expanded rtainty (k = 2		Calibration or measurement method or procedure	R	emarks:	Loc. code
Temperature Calibration by simulation - Resistance (PT 500)	-200°C to 26 260°C to 50		0.23°C 1.06°C	wit	ethod consistent th EURAMET/CG- /v.2: 2011		mperature in in this range	A
Temperature Calibration by simulation - Resistance (PT 1000)	-200°C to 0 0°C to 800		0.22°C 0.56°C	wit	ethod consistent th EURAMET/CG- /v.2: 2011		mperature in n this range	A
Temperature Calibration by simulation - Thermocouple Type C	0°C to 150 150°C to 65 650°C to 100 1000°C to 18 1800°C to 23	00°C 00°C 0°C	0.45°C 0.41°C 0.45°C 0.61°C 0.83°C	wit	ethod consistent th EURAMET/CG- /v.2: 2011			Α
Temperature Calibration by simulation - Thermocouple Type E	-250°C to -10 -100°C to -2 -25°C to 350 350°C to 65 650°C to 100	5°C 0°C 0°C	0.7°C 0.26°C 0.25°C 0.27°C 0.29°C	wit	ethod consistent th EURAMET/CG- /v.2: 2011			Α
Temperature Calibration by simulation - Thermocouple Type N	-200°C to -10 -100°C to -2 -25°C to 120 120°C to 41 410°C to 130	5°C 0°C 0°C	0.54°C 0.33°C 0.3°C 0.3°C 0.37°C	wit	ethod consistent th EURAMET/CG- /v.2: 2011			Α



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Measured Quantity Instrument or Gauge	Range:	Mea Capal Expre Ex	ration and surement pility (CMC) essed as an epanded eainty (k = 2)	Calibration or measurement method or procedure	R	emarks:	Loc. code
Temperature Calibration by simulation - Thermocouple Type S	0°C to 250° 250°C to 100 1000°C to 170	00°C	0.96°C 0.57°C 0.65°C	Method consistent with EURAMET/CG- 11/v.1: 2007	Tempe	ng CJC nsation rature can be d or measured	A
Temperature Calibration by simulation - Thermocouple Type J	-210°C to -10 -100°C to -3 -30°C to 150 150°C to 760 760°C to 120	0°C 0°C 0°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	compe Tempe	ing CJC nsation rature can be d or measured	Α
Temperature Calibration by simulation - Thermocouple Type J	-210°C to -10 -100°C to -3 -30°C to 150 150°C to 760 760°C to 120	0°C 0°C 0°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	compe Tempe	ng CJC nsation rature can be d or measured	A
Temperature Calibration by simulation - Thermocouple Type B	600°C to 800 800°C to 100 1000°C to 15: 1550°C to 18:	00°C 50°C	0.88 °C 0.8°C 0.68°C 0.69°C	Method consistent with EURAMET/CG- 11/v.2: 2011	compe Tempe	ng CJC nsation rature can be d or measured	A
Temperature Calibration by simulation - Thermocouple Type B	600°C to 800 800°C to 100 1000°C to 150 1550°C to 180	00°C 50°C	0.86°C 0.76°C 0.64°C 0.65°C	Method consistent with EURAMET/CG- 11/v.2: 2011	compe Tempe	ing CJC nsation rature can be d or measured	Α



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Measured Quantity Instrument or Gauge	Range:	C E	Calibration and Measurement apability (CMC) xpressed as an Expanded accertainty (k = 2)		Calibration or measurement method or procedure	R	emarks:	Loc. code
Temperature Calibration by simulation - Thermocouple Type R	0°C to 250 250°C to 100 1000°C to 17	00°C	0.96°C 0.57°C 0.65°C	with	thod consistent h EURAMET/CG- v.1: 2007			A
Temperature Calibration by simulation - Thermocouple Type N	-200°C to -10 -100°C to -2 -25°C to 12: 120°C to 41 410°C to 130	5°C 0°C 0°C	0.5°C 0.25°C 0.21°C 0.2°C 0.29°C	with	thod consistent h EURAMET/CG- v.2: 2011	compe Tempe	ing CJC nsation rature can be d or measured	A
Temperature Calibration by simulation - Thermocouple Type K	-200°C to -10 -100°C to -2 -25°C to 120 120°C to 100 1000°C to 13	5°C 0°C 00°C	0.39°C 0.29°C 0.27°C 0.33°C 0.38°C	with	thod consistent h EURAMET/CG- v.2: 2011			A
Temperature Calibration by simulation - Thermocouple Type K	-200°C to -10 -100°C to -2 -25°C to 120 120°C to 130 1000°C to 13	5°C 0°C 00°C	0.32°C 0.19°C 0.14°C 0.24°C 0.31°C	with	thod consistent h EURAMET/CG- v.2: 2011	compe Tempe	ing CJC nsation rature can be d or measured	A
Temperature Calibration by simulation - Thermocouple Type T	-250°C to -15 -150°C to -2 0°C to 120 120°C to 40	5°C °C	0.75 0.26 0.25 0.27	with	thod consistent h EURAMET/CG- v.2: 2011			А



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Measured Quantity Instrument or Gauge	Range:	Calibration Measurer Capability ( Expressed Expand Uncertainty	nent (CMC) as an ed	Calibration or measurement method or procedure	R	emarks:	Loc. code
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° 0.13° 0.12° 0.14°	C wit C 11/	ethod consistent th EURAMET/CG- /v.2: 2011	compe	ing CJC nsation rature can be d or measured	А
Temperature Calibration by simulation - Thermocouple Type R	0°C to 250°C 250°C to 1000°C 1000°C to 1760°C		C wit	ethod consistent th EURAMET/CG- /v.2: 2011	compe Tempe	ing CJC nsation rature can be d or measured	Α
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	0.13° 0.12° 0.15°	C wit C 11/	ethod consistent th EURAMET/CG- /v.2: 2011	compe Tempe	ing CJC nsation rature can be d or measured	Α
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	0.56°	C wit C 11/	ethod consistent th EURAMET/CG- /v.2: 2011	compe Tempe	ing CJC nsation rature can be d or measured	Α
Temperature Calibration by simulation - Thermocouple Type S	0°C to 250°C 250°C to 1000°C 1000°C to 1760°C		C wit	ethod consistent th EURAMET/CG- /v.2: 2011	compe	ing CJC nsation rature can be d or measured	Α



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Measured Quantity Instrument or Gauge	Range:	Calibrati Measur Capabilit Expresse Expai Uncertain	rement y (CMC) ed as an nded	Calibration or measurement method or procedure	Re	emarks:	Loc. code
Metal Block Calibrators and portable liquid baths	-196°C to 300°	C 0.0	W	lethod consistent ith EURAMET/CG- 3/V4:2017			A
Metal Block Calibrators and portable liquid baths	0°C	0.0	W	lethod consistent ith EURAMET/CG- 3/V.4: 2017			Α
Metal Block Calibrators and portable liquid baths	300°C to 660°	C 0.0	W	lethod consistent ith EURAMET/CG- 3/V.4:2017			А
	300°C to 660°	C 0.0	W	ith EURAMET/CG-			А

### **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'.