

Thermometry, Ukraine, NSC IM (National Scientific Centre "Institute of Metrology")

Calibration or Measurement Services			Measurand Level or Range			Measurement Conditions/Independent variables		Expanded Uncertainty					Comments	NMI Service Identifier
Quantity	Instrument or artifact	Instrument Type or Method	Minimum value	Maximum value	units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Temperature	Gallium cell	Direct comparison	29.7646	29.7646	°C	Temperature-controlled furnace	1-zone	0.2	mK	2	95%	No	Approved on 23 September 2011	1
Temperature	Indium cell	Direct comparison	156.5985	156.5985	°C	Temperature-controlled furnace	1-zone	1.0	mK	2	95%	No	Approved on 23 September 2011	2
Temperature	Tin cell	Direct comparison	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.9	mK	2	95%	No	Approved on 23 September 2011	3
Temperature	Zinc cell	Direct comparison	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.90	mK	2	95%	No	Approved on 23 September 2011	4
Temperature	Long stem SPRT	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace	1-zone	0.5	mK	2	95%	No	Approved on 23 September 2011	5
Temperature	Long stem SPRT	Calibration at Indium fixed point	156.5985	156.5985	°C	Temperature-controlled furnace	1-zone	1.1	mK	2	95%	No	Approved on 23 September 2011	6
Temperature	Long stem SPRT	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	1.0	mK	2	95%	No	Approved on 23 September 2011	7
Temperature	Long stem SPRT	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	1.1	mK	2	95%	No	Approved on 23 September 2011	8
Temperature	Thermocouple type S and R	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry. Approved on 23 September 2011	9

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Temperature	Thermocouple type S and R	Calibration at Indium fixed point	156.5985	156.5985	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	10
Temperature	Thermocouple type S and R	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	11
Temperature	Thermocouple type S and R	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	12

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Temperature	Thermocouple Pt/Pd	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	13
Temperature	Thermocouple Pt/Pd	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	14
Temperature	Thermocouple Au/Pt	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	15

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Temperature	Thermocouple Au/Pt	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.2	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	16
Temperature	Digital thermometer thermocouple	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace	1-zone	0.4	°C	2	95%	No	Uncertainty at the calibration point. Pre-determined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	17
Temperature	Digital thermometer thermocouple	Calibration at Indium fixed point	156.5985	156.5985	°C	Temperature-controlled furnace	1-zone	0.4	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	18

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Temperature	Digital thermometer thermocouple	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.4	°C	2	95%	No	Uncertainty at the calibration point. Predetermined value of inhomogeneity included in the CMC entry Approved on 23 September 2011	20
Temperature	Digital thermometer IRPT	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace	1-zone	0.4	°C	2	95%	No	Uncertainty at the calibration point. Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the calibration report Approved on 23 September 2011	21

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Temperature	Digital thermometer IRPT	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.4	°C	2	95%	No	Uncertainty at the calibration point. Hysteresis uncertainty for each IPRT must be added to the combined uncertainty quoted in the calibration report Approved on 23 September 2011	23

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