

Thermometry, Republic of Moldova, NMI (MD) (The National Metrology Institute of the Republic of Moldova)



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	Water triple point cell	Direct comparison	0.01	0.01	°C	Thermostat	ice bath	0.15	mK	2	95%	No	Approved on 06 September 2013	1
Temperature	Gallium cell	Direct comparison	29.7646	29.7646	°C	Temperature-controlled furnace		0.5	mK	2	95%	No	Approved on 06 September 2013	2
Temperature	Indium cell	Direct comparison	159.5985	159.5985	°C	Temperature-controlled furnace	3-zone	1.2	mK	2	95%	No	Approved on 06 September 2013	3
Temperature	Tin cell	Direct comparison	231.928	231.928	°C	Temperature-controlled furnace	3-zone	1.2	mK	2	95%	No	Approved on 06 September 2013	4
Temperature	Zinc cell	Direct comparison	419.527	419.527	°C	Temperature-controlled furnace	3-zone	1.6	mK	2	95%	No	Approved on 06 September 2013	5
Temperature	Standard platinum resistance thermometer	Water triple-point	0.01	0.01	°C	Thermostat	ice bath	0.3	mK	2	95%	No	Approved on 06 September 2013	6
Temperature	Standard platinum resistance thermometer	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace		0.5	mK	2	95%	No	Approved on 06 September 2013	7
Temperature	Standard platinum resistance thermometer	Calibration at Indium fixed point	159.5985	159.5985	°C	Temperature-controlled furnace	3-zone	1.3	mK	2	95%	No	Approved on 06 September 2013	8
Temperature	Standard platinum resistance thermometer	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	1.5	mK	2	95%	No	Approved on 06 September 2013	9
Temperature	Standard platinum resistance thermometer	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	2	mK	2	95%	No	Approved on 06 September 2013	10

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Temperature	Industrial platinum resistance thermometer	Direct comparison	0	0	°C	Thermostat	alcohol	0.006	K	2	95%	No	Approved on 06 September 2013	12
Temperature	Industrial platinum resistance thermometer	Direct comparison	0	80	°C	Thermostat	water	0.012	K	2	95%	No	Approved on 06 September 2013	13
Temperature	Industrial platinum resistance thermometer	Direct comparison	80	300	°C	Thermostat	oil	0.03	K	2	95%	No	Approved on 06 September 2013	14
Temperature	Thermistor	Comparison method	0	0	°C	Thermostat	alcohol	0.006	K	2	95%	No	Approved on 06 September 2013	16
Temperature	Thermistor	Comparison method	0	80	°C	Thermostat	water	0.03	K	2	95%	No	Approved on 06 September 2013	17
Temperature	Thermistor	Comparison method	80	150	°C	Thermostat	oil	0.05	K	2	95%	No	Approved on 06 September 2013	18
Temperature	Thermocouple S and R	Direct comparison	0	0	°C	Thermostat	ice bath	0.3	K	2	95%	No	Approved on 06 September 2013	19
Temperature	Thermocouple S and R	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace		0.4	K	2	95%	No	Approved on 06 September 2013	20
Temperature	Thermocouple S and R	Calibration at Indium fixed point	159.5985	159.5985	°C	Temperature-controlled furnace	3-zone	0.6	K	2	95%	No	Approved on 06 September 2013	21
Temperature	Thermocouple S and R	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.6	K	2	95%	No	Approved on 06 September 2013	22
Temperature	Thermocouple S and R	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.6	K	2	95%	No	Approved on 06 September 2013	23

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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	Liquid-in glass thermometers total immersion 0.1 °C	Comparison method	-80	-40	°C	Thermostat	alcohol	0.06	°C	2	95%	No	Approved on 06 September 2013	26
Temperature	Liquid-in glass thermometers total immersion 0.1 °C	Comparison method	-40	10	°C	Thermostat	alcohol	0.04	°C	2	95%	No	Approved on 06 September 2013	27
Temperature	Liquid-in glass thermometers total immersion 0.1 °C	Comparison method	10	60	°C	Thermostat	water	0.04	°C	2	95%	No	Approved on 06 September 2013	28
Temperature	Liquid-in glass thermometers total immersion 0.1 °C	Comparison method	60	300	°C	Thermostat	oil	0.04	°C	2	95%	No	Approved on 06 September 2013	29
Temperature	Digital thermometer IPRT	Comparison method	-80	10	°C	Cryostat	alcohol	0.04	K	2	95%	No	Approved on 06 September 2013	30
Temperature	Digital thermometer IPRT	Comparison method	10	80	°C	Thermostat	water	0.015	K	2	95%	No	Approved on 06 September 2013	31
Temperature	Digital thermometer IPRT	Comparison method	80	300	°C	Thermostat	oil	0.05	K	2	95%	No	Approved on 06 September 2013	32
Temperature	Digital thermometer thermistor	Comparison method	0	80	°C	Thermostat	water	0.04	K	2	95%	No	Approved on 06 September 2013	35
Temperature	Digital thermometer thermocouple	Comparison method	-80	10	°C	Cryostat	alcohol	0.8	°C	2	95%	No	Approved on 06 September 2013	37

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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	Digital thermometer thermocouple	Comparison method	10	80	°C	Thermostat	water	0.8	°C	2	95%	No	Approved on 06 September 2013	38
Temperature	Digital thermometer thermocouple	Comparison method	80	300	°C	Thermostat	oil	0.8	°C	2	95%	No	Approved on 06 September 2013	39
Temperature	Digital thermometer thermocouple	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace		0.4	K	2	95%	No	Approved on 06 September 2013	41
Temperature	Digital thermometer thermocouple	Calibration at Indium fixed point	159.5985	159.5985	°C	Temperature-controlled furnace	3-zone	0.6	K	2	95%	No	Approved on 06 September 2013	42
Temperature	Digital thermometer thermocouple	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.6	K	2	95%	No	Approved on 06 September 2013	43
Temperature	Digital thermometer thermocouple	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.6	K	2	95%	No	Approved on 06 September 2013	44
Temperature	Digital thermometer IPRT	Calibration at Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace		0.04	K	2	95%	No	Approved on 06 September 2013	45
Temperature	Digital thermometer IPRT	Calibration at Indium fixed point	159.5985	159.5985	°C	Temperature-controlled furnace	3-zone	0.04	K	2	95%	No	Approved on 06 September 2013	46
Temperature	Digital thermometer IPRT	Calibration at Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.06	K	2	95%	No	Approved on 06 September 2013	47
Temperature	Digital thermometer IPRT	Calibration at Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.06	K	2	95%	No	Approved on 06 September 2013	48