

Thermometry, Belarus, BelGIM (Belarussian State Institute for 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	Tin cell	Direct comparison	231.928	231.928	°C	Temperature-controlled furnace	3-zone	1	mK	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1004
Temperature	Zinc cell	Direct comparison	419.527	419.527	°C	Temperature-controlled furnace	3-zone	2	mK	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1005
Temperature	Standard platinum resistance thermometer	Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	2	mK	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1010
Temperature	Standard platinum resistance thermometer	Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	3	mK	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1011
Temperature	Industrial platinum resistance thermometer	Comparison method	-80	0	°C	Cryostat, baths, thermostats		0.5 to 0.05	K	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1014
Temperature	Industrial platinum resistance thermometer	Comparison method	0	0	°C	Thermostat	ice bath	5	mK	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1015
Temperature	Industrial platinum resistance thermometer	Comparison method	0	231	°C	Temperature-controlled bath, furnaces		0.02	K	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1016
Temperature	Industrial platinum resistance thermometer	Comparison method	156	231	°C	Temperature-controlled bath, furnaces		0.03	K	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1017
Temperature	Industrial platinum resistance thermometer	Comparison method	231	419	°C	Temperature-controlled bath, furnaces		0.05	K	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1018
Temperature	Industrial platinum resistance thermometer	Comparison method	419	660	°C	Temperature-controlled bath, furnaces		0.1	K	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1019

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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	Thermistors	Comparison method	0	50	°C	Thermostat, cryostat	stability 0.01 K	0.03	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1020
Temperature	Thermistors	Comparison method	50	150	°C	Thermostat	stability 0.01 K	0.05	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1021
Temperature	Thermocouple, types S, R, L, E, K, N, T, J	Ice point	0	0	°C	Thermostat	ice bath	0.2	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1026
Temperature	Thermocouple, types S, R	Gallium fixed point	29.7646	29.7646	°C	Temperature-controlled furnace	2-zone	0.25	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1027
Temperature	Thermocouple, types S, R	Indium fixed point	156.5985	156.5985	°C	Temperature-controlled furnace	3-zone	0.3	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1028
Temperature	Thermocouple, types S, R	Tin fixed point	231.928	231.928	°C	Temperature-controlled furnace	3-zone	0.4	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1029
Temperature	Thermocouple, types S, R	Zinc fixed point	419.527	419.527	°C	Temperature-controlled furnace	3-zone	0.5	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1030
Temperature	Thermocouple, types B, S, R	Aluminium fixed point	660.323	660.323	°C	Temperature-controlled furnace	3-zone	0.5	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1031
Temperature	Base metal thermocouple	Comparison method	0	660	°C	Temperature-controlled furnace	3-zone	0.8	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1032
Temperature	Base metal thermocouple	Comparison method	660	1100	°C	Temperature-controlled furnace	3-zone	1.5	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1032
Temperature	Liquid-in glass thermometers	Comparison method	0	60	°C	Thermostats		0.01	°C	0.1	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1033
Temperature	Liquid-in glass thermometers	Comparison method	55	155	°C	Thermostats		0.02	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1034
Temperature	Liquid-in glass thermometers	Comparison method	140	300	°C	Thermostats		0.05	°C	2	95%	No	Approved on 20 May 2010	COO-T-BelGIM-1035

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Temperature	Tungsten strip lamps	Compared with tungsten strip lamp	962	2800	°C	Effective wavelength	0.47 μm to 0.7 μm	2.5 to 9	°C	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1036
Temperature	Tungsten strip lamps	Compared with tungsten strip lamp	962	2800	°C	Effective wavelength	0.8 μm to 2 μm	4 to 17	°C	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1036
Temperature	Radiation temperature sensors with display unit	Compared with standard radiation temperature sensor	962	2500	°C	Wavelength	2 μm to 18 μm	10 to 25	°C	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1037
Temperature	Radiation temperature sensors with display unit	Compared with standard blackbody radiator	20	600	°C	Wavelength	2 μm to 18 μm	0.31 to 1.1	°C	2	95%	No	Approved on 19 November 2009	COO-T-BelGIM-1038