



Laboratorium Pomiarowe „MUTECH”

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AP 106

Calibration laboratory accredited by
Polish Centre for Accreditation, a signatory to EA MLA and ILAC MRA
that include recognition of calibration certificates.
Accreditation No AP 106



CALIBRATION CERTIFICATE

Date of issue: 24 November 2016.

Certificate No.: 3350/AT/16

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OBJECT OF CALIBRATION	Thermometer, Producer: Termoprodukt, identification no. 3971016, type: DT-34, measuring range (- 50 ÷ 270) °C, resolution 0,1 °C.
APPLICANT	PPHU TERMOPRODUKT ul. Tkacka 17, 58-260 Bielawa.
CALIBRATION METHOD	Calibration procedure used: PA-T-05 „Calibration of electric thermometers (within electronic thermometers)” issue 8 of 03 June 2013.
ENVIRONMENTAL CONDITIONS	Ambient temperature: (20,6 ÷ 21,7) °C, Ambient humidity: (41,5 ÷ 44,7) %.
DATE OF CALIBRATION	24 November 2016.
TRACEABILITY	This certificate is issued under the agreement EA MLA in the field of calibration and provides traceability of measurement results to the International System of Units (SI).
CALIBRATION RESULTS	The results have been presented on page 2 of this certificate including uncertainty of measurement
UNCERTAINTY OF MEASUREMENT	Uncertainty of measurement has been evaluated in compliance with EA-4/02 M:2013 The expanded uncertainty assigned corresponds to a coverage probability of 95 % and the coverage factor $k = 2,0$.



KIEROWNIK
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mgr inż. Sławomir Wróbel

CALIBRATION RESULTS

Calibration results are the following:

Lp.	standard temperature	instrument reading	error of measurement	expanded uncertainty
	t_p	t_w	Δt	U
	°C	°C	°C	°C
1	-18,0	-18,0	0,0	0,2
2	3,0	3,0	0,0	0,1
3	7,0	7,0	0,0	0,1

Immersion depth of the resistance thermometer sensor: 100 mm

Error of measurement Δt was calculated in accordance with the following formula:

$$\Delta t = t_w - t_p$$

Specified values of temperature are referred to the International Temperature Scale of 1990 (ITS – 90).

Authorized by:

Specjalista Metrolog

[Signature]
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