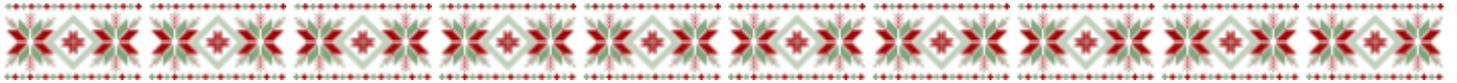




# INVITATION FOR PROFICIENCY TESTING

in accordance with ISO/IEC 17043:2023



## Nº PTS 26/03-C-2 Calibration of Digital Thermometer



[www.ptsbg.eu](http://www.ptsbg.eu)



[office@ptsbg.eu](mailto:office@ptsbg.eu)



+359 897 503 980

## 1. Number and name of the PT scheme

**Number:** PTS 26/03-C-2

**Name:** Calibration of Digital Thermometer

## 2. Selection of method and measured quantity

<b>Quantity:</b>	Temperature	<b>Unit:</b>	°C
<b>PT item:</b>	<b>Digital Thermometer ETI Reference;</b> Length of the probe: <b>109 mm</b> ; Diameter of the probe: <b>3.2 mm</b> ; Serial number: <b>D 12080096</b> Measurement range: <b>from minus 200 °C to 200 °C</b> Resolution: <b>0.01 °C</b> Manufacturer: <b>ETI Ltd, United Kingdom</b>		
<b>Measurement points:</b>	-40.00 °C; -20.00 °C; 0.00 °C; 50.00 °C; 100.00 °C; 180.00 °C		
<b>Expected expanded uncertainty of the reference calibration (k = 2):</b>	approximately from 0.009 °C to 0.020 °C, depending on the calibration point		
<b>Selection of method:</b>	Calibration is performed by a comparison method, based on direct comparison between the indication of the PT item and the reference temperature realised by the standard and/or reference equipment of the participating laboratory, in accordance with its established procedure for the calibration of digital thermometers. The measurements are performed at the specified calibration points. The participant submits results only for the points for which it is technically competent to perform calibration.		

In this PT scheme, calibration is performed by measurement; therefore, “measurement points” correspond to the calibration points stated in the Certificate of Participation.

## 3. Information about the activities, undertaken by external providers



**Directorate General “National Centre of Metrology”**  
**at the Bulgarian Institute of Metrology**  
52B Dr G. M. Dimitrov Blvd., 1797 Sofia, Bulgaria

- The reference calibration of the PT item is performed by an external service provider - the Bulgarian Institute of Metrology, Directorate General “National Centre of Metrology”, Temperature Measurements Department.
- The PT item (a digital thermometer) is calibrated before being sent to the first participant (reference calibration 1) and after being returned to the PT provider (reference calibration 2).
- The results obtained from the reference laboratory are used for:
  - determining the assigned values (reference values) for each calibration point;
  - evaluating the expanded uncertainty associated with the assigned values;
  - evaluating the stability of the PT item during the operation of the PT scheme;
  - including, where applicable, an instability component in the uncertainty budget of the assigned value.
- The assigned value (reference value) for each calibration point is determined on the basis of the results of the reference calibrations, taking into account possible drift of the PT item between the initial and the final reference calibration.

## 4. Time schedule of the PT scheme and information for participants



⚠ **In case of changes in the schedule of the present PT scheme or in the event of other significant circumstances, all participants will be notified by e-mail.**

Detailed information will be provided to the participant in the **“Instruction for Participants” (F 7.3.5-1)**, which will be sent by e-mail.

The overall duration of the PT scheme is approximately 2 months, depending on the number of participants.

The exact sequence of participants and the individual deadlines for performing the measurements are determined by the PT Provider in the **“List of registered participants” (L 7.2.1-4)** and are communicated additionally to the participants by e-mail.

## 5. Financial conditions

	ONE PARTICIPATION	EACH SUBSEQUENT PARTICIPATION
	690 €	345 €

### ⚠ IMPORTANT!!!

- The participation fee does not depend on the number of points to be calibrated.
- Initially, a pro forma invoice is issued, which is sent to the email address specified in the **“Application for Participation” /F 7.2.1-3/**.
- After payment is made, an electronic invoice is issued to the participants who have paid, which is sent to the email address specified in the **“Application for Participation” /F 7.2.1-3/**.
- Only the participants who have paid their participation fees will be included in the proficiency testing!
- For the second and each subsequent participation of the laboratory with a separate laboratory code, 50% of the announced price is paid.
- You will be informed via email when the PT item has been sent to you.
- Each participant agrees and undertakes to use a reliable and fast (from 3 to 7 business days) courier company. This is confirmed through the filling out and sending/submission of the application for participation.

## 6. Applying for participation in the PT scheme

- In order to participate in the PT scheme, the laboratory shall complete the **“Application for Participation” (F 7.2.1-3)** and send it to the e-mail address indicated in the form. The application may also be submitted electronically via the website of PTS Bulgaria Ltd.
- By submitting the application, the laboratory confirms that it accepts the defined design of the PT scheme, including the stability and suitability of the PT item for the intended measurements.
- By submitting the application, the participant accepts the method for determining the assigned values (reference values) for each calibration point, as well as the method for evaluating the associated uncertainties, in accordance with the present PT plan.
- The PT provider assigns a unique identification code to each participating laboratory for administrative purposes and for reporting purposes.
- One laboratory may participate in the PT scheme more than once, for example through different operators, use of different standards, or for other internal purposes of the laboratory. In such cases, each participation is treated as an independent participation and a separate laboratory code is assigned to it. For each participation, the laboratory submits results for the calibration points for which it is technically competent to perform calibration. The laboratory codes are entered in advance in the **“Results Sheet” (F 7.2.1-7)** by the PT Scheme Manager.
- The **Final Report (F 7.4.3-1)** is prepared by the designated statistical expert and sent to each participant by e-mail.
- A Certificate of Participation is issued to each participant, generated automatically by the PT provider’s software and sent to the e-mail address indicated in the **“Application for Participation” (F 7.2.1-3)**.
- Information on the issued Certificates of Participation will be published in the “Register” section of the official website of PTS Bulgaria Ltd.

## 7. Contacts

eng. Valentin Belovski  
PT Scheme Manager



+359 89 7503980



Tatyana Kasabova  
Data Collection and Coding Expert



+359 89 9301570

office@ptsbg.eu

2026-03-09