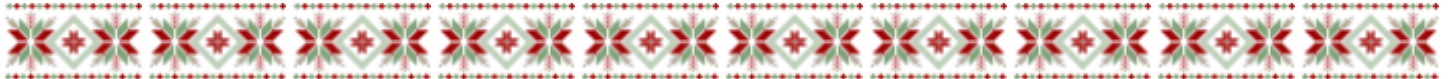


INVITATION FOR PROFICIENCY TESTING

in accordance with ISO/IEC 17043:2023

This proficiency testing scheme is within the scope of accreditation of the PT Provider PTS Bulgaria at PTS Bulgaria Ltd



№ PTS 26/03-C-1 Calibration of Digital Hygrometer



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1. Number and name of the PT scheme

Number: PTS 26/06-C-1

Name: Calibration of Digital Hygrometer

2. Method selection and quantity

Measurand:	Air relative humidity
Unit:	%RH
PT item:	Digital hygrometer ETI Ltd Therna 6102 , equipped with an external probe for measuring relative humidity. Serial number: D18050220 ; Sensor measuring range: 0 %RH – 100 %RH ; Resolution: 0.1 %RH ; Manufacturer: ETI Ltd, United Kingdom .
Measurement points:	10 %RH; 20 %RH; 30 %RH; 50 %RH; 70 %RH; 90 %RH Calibration shall be performed at a temperature within the range (20 to 25) °C
Reference laboratory CMC:	$U = 1.6 \%RH$ ($k = 2$) within the range 6 %RH – 95 %RH
Reported result for the purposes of evaluation:	The calibration result of the PT item reported by the participant for the respective calibration point in the format specified by the PT provider. For the purposes of evaluation by the En criterion, the reported result of the participant X_{LAB} is compared with the assigned value X_{REF} , determined on the basis of the reference calibration results for the respective calibration point. X_{LAB} and X_{REF} are used in the same form of presentation of the result
Method selection:	Calibration is performed by direct comparison between the indication of the PT item and the reference value of relative humidity realized by the reference equipment of the participating laboratory. The participating laboratory applies its established procedure for calibration of hygrometers or instruments for measuring relative humidity. Calibration is performed for the calibration points applied for by the participant. The participant may apply to participate for all or only part of the specified calibration points. Where, for technical reasons, exact realization of a given applied calibration point is not possible, the laboratory reports the actually realized value of relative humidity, the calibration result in the format specified by the PT provider and the associated expanded measurement uncertainty at $k = 2$. The PT provider assesses the technical comparability of the reported result against the respective specified calibration point before calculating En . Results that are not technically comparable with the specified calibration point are not used for evaluation of performance for that point

3. Information about the activities, undertaken by external providers



**TECHNICKÝ SKÚŠOBNÝ
ÚSTAV PIEŠŤANY**

Technický skúšobný ústav Piešťany, a. s
Krajinská cesta 2929 / 9, 921 01 Piešťany, Slovakia

- The external provider acts as the reference laboratory for the purposes of the present PT scheme.
- The laboratory is accredited in accordance with ISO/IEC 17025 for calibration of instruments for measuring relative humidity of air in the range from 6 %RH to 95 %RH.
- The external provider performs the following laboratory activities within the present PT scheme:
 - initial reference calibration of the PT item before it is sent to the first participant;
 - repeat reference calibration of the PT item after it is received back from the last participant;
 - provision of reference calibration results used by the PT provider for determining the assigned values, evaluating the uncertainty of the assigned values and assessing the stability of the PT item.
- The results of the reference calibrations are used for:
 - determining the assigned values for each calibration point;
 - evaluating the expanded uncertainty of the assigned values;
 - assessing the stability of the PT item during implementation of the scheme;
 - including, where applicable, the standard uncertainty component related to the stability of the PT item in the uncertainty budget of the assigned value.

- The assigned value for each calibration point is determined on the basis of the results from the initial and repeat reference calibrations, taking into account the possible drift of the PT item between the two reference calibrations.
- The external provider performs only laboratory activities related to the reference calibration of the PT item. The PT provider does not subcontract to the external provider the development and planning of the PT scheme, the evaluation of participant performance or the approval of the final report.
- The PT provider bears full responsibility to the participants for all services provided by the external provider that may affect the validity of the present PT scheme, including the selection, evaluation, monitoring and acceptance of the reference calibration results.
- The PT provider evaluates and accepts the results of the reference calibrations before using them for determining assigned values, evaluating uncertainty, assessing stability and evaluating participant performance

4. Time schedule of the PT scheme



⚠ In case of changes in the time schedule of this PT scheme or upon occurrence of other significant circumstances, all participants will be notified in a timely manner by e-mail.

Detailed information concerning receipt, storage, handling, calibration, reporting of results and subsequent dispatch of the PT item is provided to the participants through **Instruction for the participants (F 7.3.5-1)**, which is sent by e-mail.

The total duration of the PT scheme depends on the number of participants, transport time, the period for calibration at each participant and the time required for initial and repeat reference calibration.

Due to the sequential nature of this PT scheme, sending the PT item to the first participant may begin before the expiry of the deadline for accepting applications, where at least one validly submitted and accepted application for participation is available.

The deadline for accepting applications determines the last date by which laboratories may apply to participate in the scheme.

Laboratories that apply to participate after the start of distribution of the PT item may be included in the sequence of participants where this is technically possible and does not jeopardize the validity, schedule and organization of the PT scheme.

The exact sequence of participants, shipping addresses and individual deadlines for calibration and subsequent dispatch of the PT item are determined by the PT provider in the **List of applicants (S 7.2.1-4)** and communicated to participants **by e-mail**.

The results are submitted by the participant within the deadline determined by the PT provider, through the provided **Results sheet (F 7.2.1-7)**.

The final report and certificates of participation are prepared and sent within 20 working days after completion of the repeat reference calibration and final processing of results.

5. Financial conditions

	ONE PARTICIPATION	EACH SUBSEQUENT PARTICIPATION
	720 €	360 €

⚠ 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

- For participation in the PT scheme, the laboratory completes **Application for participation (F 7.2.1-3)** and sends it to the e-mail address specified in the form. The application may also be submitted electronically through the official website of the PT provider.
- By submitting the **Application for Participation (F 7.2.1-3)** electronically, the laboratory confirms that it is familiar with the PT Plan, the Invitation for Proficiency Testing and the conditions for participation in the present PT scheme, and accepts them.
- Acceptance of the conditions for participation is confirmed by completing and submitting the **Application for Participation (F 7.2.1-3)** from the indicated e-mail address and by ticking the relevant confirmation checkbox in the form, where such checkbox is provided.
- In the Application for participation, the laboratory indicates the calibration points for which it applies to participate. The laboratory may apply to participate for all or only part of the specified calibration points.
- By submitting the Application for participation, the laboratory confirms that it accepts the defined design of the PT scheme, including the sequential manner of conduct, the method for distribution of the PT item, the rules for receipt, storage, handling, calibration and subsequent dispatch of the item, as well as the requirements for reporting results.
- By submitting the Application for participation, the laboratory confirms that it accepts responsibility for the proper receipt, storage, handling, use, packaging and subsequent dispatch of the PT item for the period during which the item is in its possession, factual custody or under its control.
- The participant is responsible for sending the PT item to the next participant or to the PT provider within the deadline and in the manner determined by the PT provider. The participant provides the PT provider with confirmation of dispatch by e-mail.
- In the event of loss, damage, functional malfunction, permanent contamination, unlawful retention or other action or inaction occurring during the period in which the PT item is in the possession, factual custody or under the control of the participant, the participant reimburses the PT provider for the actually incurred and duly documented direct costs necessary to remedy the consequences.
- These costs may include, where applicable, costs for checking, repair, replacement of the PT item, transport, additional or repeated reference calibration, stability assessment, updating assigned values and other direct costs necessary to preserve or restore the validity of the PT scheme.
- The PT provider notifies the participant in writing of the established problem, the evaluated influence on the PT scheme and the amount of costs due, where applicable.
- By submitting the Application for participation, the laboratory accepts the method for determining the assigned values for each calibration point, the method for evaluating the associated uncertainties and the criterion for evaluation of performance, defined in this PT plan.
- The PT provider assigns a unique laboratory code to each participation for administrative purposes, processing of results, evaluation of performance and reporting.
- One laboratory may participate in the PT scheme more than once, for example where different operators participate, different standards or different procedures are used, or for other internal purposes of the laboratory. In such cases, each participation is considered as independent participation and a separate laboratory code is assigned to it.
- For each participation, the laboratory submits results for the applied calibration points. For points for which the laboratory has not applied or has not reported a result, evaluation of performance is not performed.
- Laboratory codes are entered in advance in the **Results sheet (F 7.2.1-7)** by the PT Scheme Manager or by a designated member of the PT provider's team.
- **The Final report (F 7.4.3-1)** is prepared after completion of the statistical processing, evaluation of performance and checking of the results. The report is sent to each participant by e-mail.
- A certificate of participation is issued to each participant and sent to the e-mail address specified in **Application for participation (F 7.2.1-3)**.
- Information concerning issued certificates of participation may be published in the "Register" section of the official website of the PT provider. Results, **En** evaluations or other information enabling identification of participant performance are not published

7. Contacts

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2026-06-09