

To: Operators performing field measurements

## Intercomparison test for field measurements KMV 08/2025

ProfTest Syke will organize an intercomparison test for field measurements of oxygen, temperature, pH, turbidity, and electrical conductivity on 16 September 2025 in Turku.

In the intercomparison test, the comparability and accuracy of the results of the participants are demonstrated, and the quality assurance procedures of the measuring devices used by the participants are surveyed. The intercomparison test is also suitable for continuous measurement stations if the station can be moved to the test site. The intercomparison test is carried out if at least 10 measuring devices are participating.

After the registration period ends, detailed instructions will be sent to the participants. The organizing of intercomparison test for field measurements is not included in the accreditation scope of ProfTest Syke but its organizing follows the principles of accredited activities.

### Timetable

Registration	<b>10 June – 1 September 2025</b>
Time and place	<b>Tuesday 16 September 2025 at 9:30–11:30</b> <b>Kurala pontoon bridge, 20540 Turku</b>

### Participation fee

The participation fee is 400 € (+ VAT) when reporting the results of one device. If the participant wants to test several measuring devices of the represented entity, the cost from extra measuring device is 250 € /device (+ VAT). See detailed information in Chapter 9 *Participation fee*.



Päivi Grönroos,  
Coordinator



Mirja Leivuori,  
Group manager

ProfTest Syke is proficiency testing provider PT01  
(EN ISO/IEC 17043:2010) accredited by FINAS  
(Finnish Accreditation Service, [finas.fi/sites/en](https://finas.fi/sites/en)).



## Organizing the intercomparison test

### 1 Organizer

Proftest Syke, Finnish Environment Institute (Syke)  
Address: Mustialankatu 3, FI-00790 Helsinki, Finland  
Email: [proftest@syke.fi](mailto:proftest@syke.fi)

### Contact

Coordinator: Päivi Grönroos, tel. +358 295 252 174  
Substitute for coordinator: Mirja Leivuori, tel. +358 295 251 366  
Expert in field measurements: Joonas Kahiluoto, tel. +358 295 251 841  
Email: [firstname.lastname@syke.fi](mailto:firstname.lastname@syke.fi)

### 2 Implementation of the intercomparison test

The intercomparison test is carried out on the Aura River, at the Kurala pontoon bridge, Hämeen valtatie 172, 20540 Turku. Preparation for intercomparison test starts at the latest at 9:30 a.m. and the implementation of the intercomparison test starts at 10 a.m. The intercomparison test is expected to end at 11:30 at the latest. The measurands of the intercomparison test are oxygen, temperature, pH, electrical conductivity, and turbidity. The homogeneity of the testing area during the comparison is determined based on the measurements of organizer's three YSI EXO2 sondes.

The test depth is at least 50 cm, and a cable of more than 2 meters is recommended for non-logging measuring devices. Participants take the cables they need with them. If your measuring device has special requirements, please report them during registration or contact the organizer ([proftest@syke.fi](mailto:proftest@syke.fi)). Measuring devices intended for surface measurements may not participate in the comparison.

### 3 Registration

The registration for this intercomparison test is open until **1 September 2025**.

Registration is done via the link [link.webropol.com/s/kmv0825](https://link.webropol.com/s/kmv0825) or via this QR code. If you have any problems using the form, please contact [proftest@syke.fi](mailto:proftest@syke.fi).



### 4 Reporting the participant results

Participants report their measurement results during the intercomparison test.

### 5 Assigned values, evaluation of the results, and result reports

Either the robust mean, the median, or the mean of the results reported by the participants will be used as the assigned value for the measurand. The calculation of the assigned value is based on the results reported according to the given guidelines. Also, when needed, the result of the expert laboratory can be used as the assigned value. The evaluation of the results will be based on z scores. In special cases also  $E_n$  or D% scores can be used for the performance evaluation.

Proftest Syke delivers the preliminary result report to the participants latest in the week 40 (29 September – 3 October 2025). The final report will be published at the latest in March 2026 and it is then available on Proftest Syke website ([syke.fi/proftest/en](https://syke.fi/proftest/en)). The availability of the report will be informed to the participants.

## 6 Confidentiality

The results of participants are treated anonymously. The participants' results and the preliminary results report of the round are confidential and should not be shared with third parties during the implementation of the round.

## 7 Participation fee

The participation fee is 400 € (+ VAT) when reporting the results of one device. One device can include an oxygen, temperature, pH, turbidity and/or electrical conductivity sensor. If the participant wants to test several measuring devices of the represented entity, the cost from extra measuring device is 250 € /device (+ VAT).

Note! In Finland current VAT is 25,5 %. Further, if the invoicing address or any other additional information has to be corrected after the invoicing, the extra handling cost will be charged.