

To: Operators performing field measurements

Intercomparison test for field measurements KMV 11/2024

ProfTest Syke will organize intercomparison test for field measurements of oxygen, temperature, pH, turbidity, and electrical conductivity in October 2024 in Pori.

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.

After the end of registration detailed instructions will be sent to the participation. 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	24 June – 13 September 2024
Time and place	Wednesday 9 October 2024 at 9:30–11:30 Taavi Bridge, 28100 Pori

Participation fee

The participation fee is 375 € (+ 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 225 € /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).



Organizing the intercomparison test

1 Organizer

Proftest Syke, Finnish Environment Institute (Syke)
Address: Mustialankatu 3, FI-00790 Helsinki, Finland
Email: 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

2 Implementation of the intercomparison test

The intercomparison test is carried out on the Kokemäenjoki river, at the Taavi bridge, Taavi, 28100 Pori. 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 3 meters is recommended for non-logging measuring devices. Participants take the cables they need with them. If your measuring device has special needs, please inform those in registration or contact the organizer (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 **13 September 2024**.

Registration is done via the link link.webropol.com/s/kmv1124 or via this QR code. If you have any problems using the form, please contact 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 43 (21 – 25 October 2024). The final report will be published at the latest in March 2025 and it is then available on Proftest Syke website (syke.fi/proftest/en). The availability of the report will be informed to the participants.

6 Confidentiality

The results of participants are treated anonymously.

7 Participation fee

The participation fee is 375 € (+ 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 225 € /device (+ VAT). One device can include an oxygen, temperature, pH, turbidity and/or electrical conductivity sensor.

Note! In Finland current VAT is 24 %. Further, if the invoicing address or any other additional information has to be corrected after the invoicing, the extra handling cost will be charged.