Newsletter

February 9th 2023
Castricum, The Netherlands
Newsletter 2023-Q1

Dear readers,

With this newsletter we like to inform you about our day to day business, current projects, performance characteristics of our products and new product development. Enjoy reading!

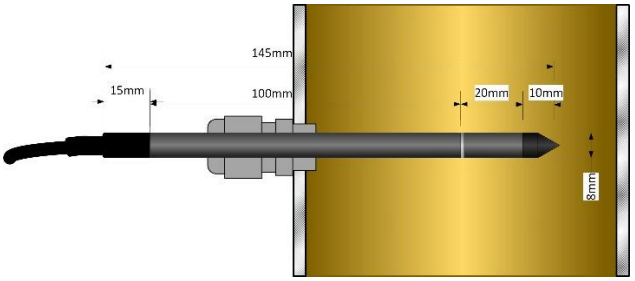
Day to day business

In 2022 we **expanded** our **production** considerably. Currently, we are **building up stock** for our standard probes and products (listed on our website and in our price list). Once we have all products on stock, our **webshop** will be launched. This will make the ordering process much easier.

Off course, **custom made probes** and standard probes with longer cables will still be **availbale upon request**.

Feel free to **contact us** at sales@swapinstruments.com for current prices and delivery times of our products.

New: soil Redox probes and temperature probes for column experiments



ORP-10-1-C

TMP-10-1-C

At the request of several researchers, we have **developed** soil Redox and temperature **probes** that are more **suitable** for **column experiments**. These probes have a **diameter of 8 mm**, instead of our 'standard' soil Redox probes, which have a diameter of 14 mm. These probes can also be used for **field measurements**.

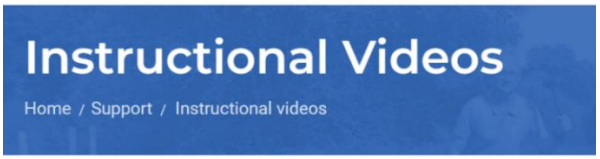
The new probes have,

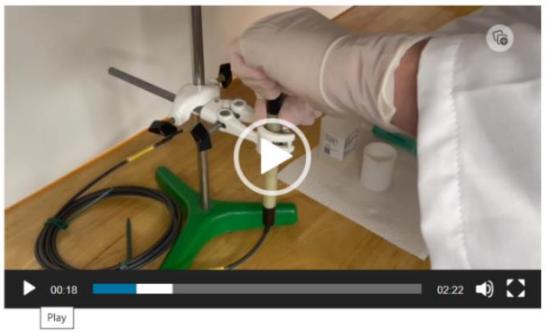
- ✓ 1 Pt ring or 1 temperature sensor (NTC)
- ✓ Analog outputs
- ✓ A **diameter** of **8 mm**
- ✓ No integrated reference electrode

These probes are already available **upon request** and will be **added** to our price list and **website** very soon.

Contact us at sales@swapinstruments.com for **pricing** and **additional information** about the new soil Redox and temperature probes.

Instructional video(s)





Probe maintence is of great importance for (soil) **Redox measurements**. To facilitate probe maintenance, we started making **instructional video's**. We are very pleased to announce that we have published the first instructional video on our **website**.

This video shows how to **refill** the SWAP instruments **reference electrode** (REF-12-0-A). We both sell stand-alone reference electrodes and reference electrodes that are integrated in our soil Redox probes. More instructional videos will follow.

You can **watch** the instructional video(s) at https://www.swapinstruments.com/support/instructional-videos/

For questions about probe maintenance, please contact us at support@swapinstruments.com

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Soil Redox probe applications: heavy metal mobilisation

For questions about this application, contact us at info@swapinstruments.com

Due to **climate change**, many areas area around the world experience longer periods of **drought** and/or intense periods of heavy rainfall, which can cause **flooding**.

These climate-induced events can impact biogeochemical processes which are controlled, amongst others, by **Redox conditions**. This can result in the **mobilisation of heavy metals**. Arsenic, for example, may be released from the soil, causing **drinking water pollution**.

These processes can be studied with our **Redox probes**. In addition, **ORP measurements** of drinking and groundwater, performed with our Redox probes, can **predict** if heavy metal **pollution** can occur.

If you are interested in our products or would like to receive some additional information, please contact us at info@swapinstruments.com or visit our website www.swapinstruments.com.

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