

September 28th 2022
Castricum, The Netherlands
Newsletter 2022-Q3

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



So far 2022 turns out to be a very **good year** for soil Redox research. More and more researchers are finding their way to our soil Redox probes. In our latest newsletter (2022-Q1), we mentioned that we have **scaled up production** to meet the demand for our products. Since then, the **interest** in our products **continued to grow** and production had to be increased again. We managed to do this successfully, despite the shortages on the parts market (e.g., chips). Since it is foreseen that shortages will remain for a longer period of time, we **advise** our customers to **order** our products **in time**. This especially accounts for our custom-made probes (not on stock).

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

New: protection and storage bottle for our (integrated) reference electrodes



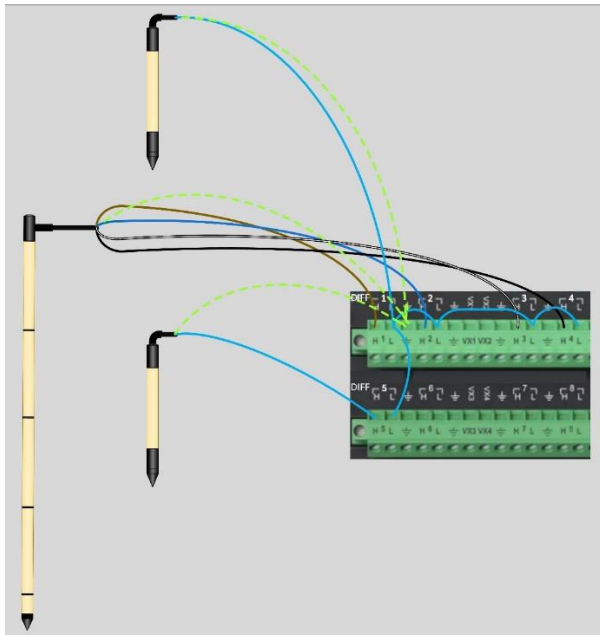
To avoid drying out of the gel in our (integrated) reference electrodes, the opening of our **reference electrodes** was protected with a sealing sleeve. During transport or storage of the reference electrode, it was advised to use this sealing.

Recently, we replaced the sealing sleeve with a **protection and storage bottle** filled with 3 M KCl gel (see photo). This is the same gel that is present in the reference electrode (called Electrolyte-100).

This protective and storage bottle **prevents drying out** and **reduces the maintenance frequency** of the reference electrodes

Contact us at info@swapinstruments.com for additional information about this protection and storage bottle for our reference electrodes.

Suggestions for datalogger connections



Many of our customers use our probes in combination with dataloggers. To facilitate our customers, we have included some **suggestions for datalogger connection** in our latest manual (Manual for SWAP soil Redox probes; version 2022-V4). For our soil Redox probes, 2 options are described:

1. Differential (DIFF) Mode and
2. Single Ended (SE) Mode

Suggestions are also given for wiring the ORP probes temperature sensor to a logger in single-ended (SE) mode.

For more detailed information, you can download this manual at:

<https://www.swapinstruments.com/products/soil/documentation/>

For additional questions, please contact us at info@swapinstruments.com

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.