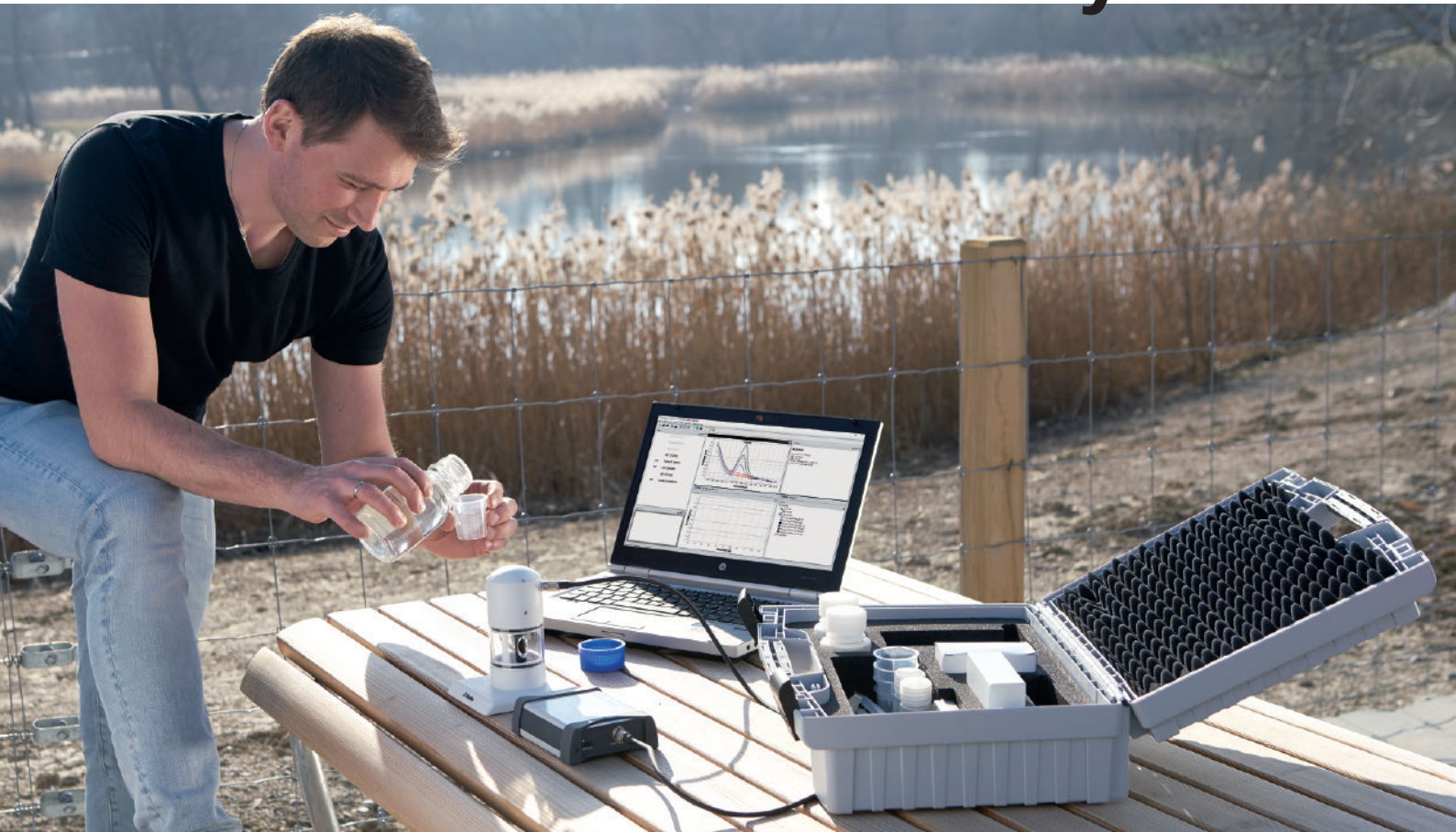


946 Portable VA Analyzer



Heavy metal analysis goes mobile

On-site determination of arsenic, mercury, and copper in water samples

02

Safeguarding the quality of water for human consumption involves monitoring trace level concentrations of heavy metals, for example arsenic, mercury, and copper¹. Such measurements have been routinely performed in the laboratory – mostly for lack of viable alternatives for field use.



Bring the laboratory to the sample!


With the 946 Portable VA Analyzer from Metrohm, there is now such an alternative. A dedicated solution for water analysis, the 946 Portable VA Analyzer enables fast and straightforward determination of trace level concentrations of arsenic, and mercury, and copper in the field with the sensitivity, accuracy, and reproducibility required to monitor the WHO¹ guideline values.



The 946 Portable VA Analyzer is ...

- **ready to measure in minutes, anywhere** – portable carrying case complete with instrument, measuring stand, accessories, and bottles.
- **battery powered** – no access to power grid required!
- **straightforward to use** – simply start predefined methods and get the results shown a few minutes later.

¹ The WHO «Guidelines for Drinking-water Quality» currently recommend a limit value of 10 µg/L for arsenic, 6 µg/L for mercury, and 2000 µg/L for copper.



scTRACE Gold electrode keeps measurements simple

At the heart of the 946 Portable VA Analyzer is the scTRACE Gold. This screen-printed sensor with a gold microwire working electrode provides outstanding sensitivity enabling accurate, reproducible determinations of total arsenic down to the single digit $\mu\text{g/L}$ -range. This is well below the limit values recommended by the WHO and required by law in many countries, among them US and the member states of the EU.

Fast conditioning, no maintenance – just measure

The scTRACE Gold does not require extensive conditioning, it is maintenance-free, and it can be easily exchanged due to smart plug-in design.

Straightforward speciation analysis possible

Voltammetric trace analysis enables users to perform speciation analysis, i. e., discriminate between the highly toxic As(III) and the less toxic As(V). Competing methods such as IC-ICP/MS are much more expensive and require a laboratory by definition.



Ordering information

2.946.0010 946 Portable VA Analyzer



www.metrohm.com

 **Metrohm**