

WATER SAMPLING AND FIELD ANALYSIS SET



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Water is one of the most important sources of life for the human race, plants and animals. The quality of the water therefore is of great importance. To get a first global impression of the quality of the water a water sampling and field analysis set is used.

13.90 Water sampling and field analysis set

This set contains, among other things: a stainless steel bailer sampler, sample bottles, a water level measuring device, a dissolved oxygen meter, a pH-meter, and a water quality test kit with EC-meter.

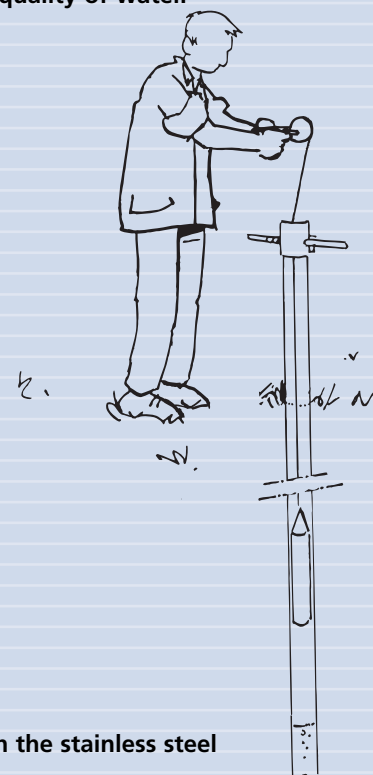
- With the stainless steel bailer sampler water samples can be taken out of water wells (depending on the length of the measuring tape or the cable) at any required depth, as well as from the water out of lakes and creeks, etc. It is a simple, light and compact sampler of high-grade material (easy to clean). The samples can be used for chemical-, biological- and/or bacteriological analysis.

- Using measuring tape and a water level measuring device allows determination of the water level in gauges or wells.
- A multimeter to measure pH, mV, EC, salinity, temperature and oxygen. The meter has a high resolution graphic screen which shows measurements, temperature and battery condition. Full guidance is given by simple instructions in the language of your choice (UK, NL, F, D). The meter has automatic calibration, a storage memory for 200 measurements and programmable automatic switch-off for increased battery life. The meter is supplied with an oxygen and pH electrode. Measuring ranges: 0-14 pH, ± 1200 mV, 0°-100°C, EC 0-1000 mS/CM, Salinity 0-100 g/l, O₂ 0-20 mg/l, 0-200%.
- With the water quality test kit, field analysis of the taken samples are possible for: iron, pH 0-14, nitrate, ammonium, fluoride and sulfite. The analysis are executed with test-strips.



Water sampling and field analysis set

Prior to well installation, a groundwater sample is taken to test the quality of water.



With the stainless steel bailer sampler a sample is taken in open water.



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Measuring the oxygen content in water or the pH of the water in the sample bottle.



- ❑ The pocket EC-meter has an automatic temperature compensation and is suitable for EC-determinations in the measuring range of 10 to 1990 microS. The EC-value is directly related to the salt-content of the water.
- ❑ In addition the field analysis set has been fitted with registration forms and clear instructions for users.

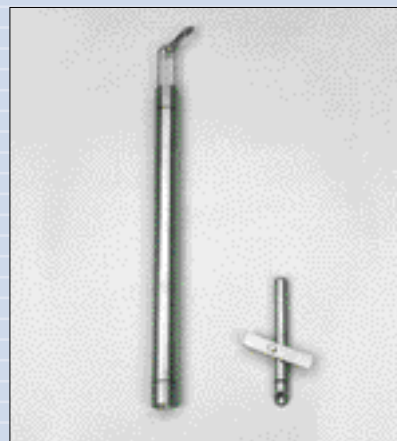
Applications

- ❑ Quality control of (future) drinking water.
- ❑ Field analysis of water from water production wells and monitoring wells.
- ❑ Quality control and determination of the oxygen content of river water or water in fishing ponds, etc.
- ❑ Environmental research (global indication), for example for educational purposes.
- ❑ Education and training.

Advantages

- ❑ Easy sampling.
- ❑ A stainless steel sampler can be cleaned effectively.
- ❑ Simple methods of analysis.
- ❑ Quick first analysis results (indication for further research).
- ❑ A great number of tests are possible.
- ❑ Data on hygiene-related components (nitrate, ammonium in polluted wells) as well as concerning the applicability of the water for mankind, cattle and plants.

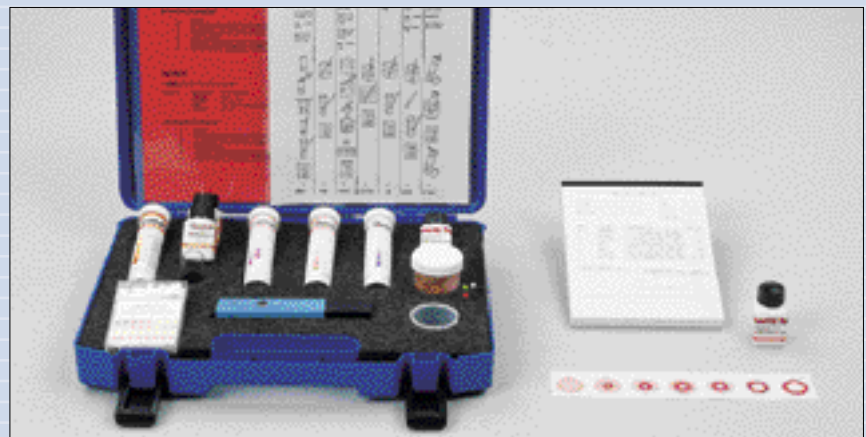
The field analysis need to be executed at a protected, shadowy location.



Stainless steel bailer sampler



Multimeter with electrodes



Water quality test kit