



AQUA-CHECK

For mobile water analysis



Pond care

Aquaristics

Bathing

Fish breeding

Aqua-culture

Research

Education

Swimming pool

Drinking water



For exact water values

The Söller product range in the field of electronic water analysis comprises two types of measuring devices.

AQUA-CHECK and **AQUA-CHECK 2** are highly sensitive, mobile photometers that allow for a precise determination of substance concentrations in water. The devices combine professional water analysis with highest operation comfort.

- **Simple handling via two key control**
- **Temperature independent operation**
- **No calibration necessary**
- **Measuring without cuvettes**
- **Up to 1.000 measurements without battery change**
- **Measuring results at lab-level precision**
- **Mobile handheld device**

The photometers are suitable both for laymen and for professionals as they are very easy to use.

Neither for handling nor for purchasing the chemicals that are included in the standard accessory, a proof of competence as stipulated in § 5 (2) of the „German restriction ordinance on chemicals“ is required.

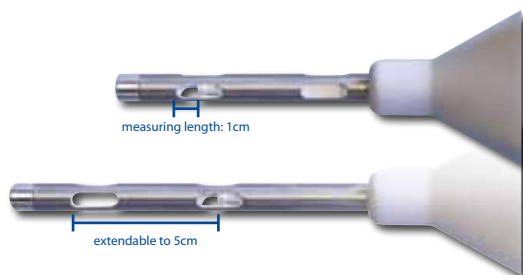
Wide measuring range

As the photometers feature extendable measuring tubes, they provide an extremely wide measuring range. That is why even very low concentrations of phosphate can still be detected reliably.

Photometric measurement

AQUA-CHECK and **AQUA-CHECK 2** are based on photometry – a science associated to physics and chemistry. In photometric measurements substance concentrations can be determined by analysing the change of light intensities in coloured water samples.

In contrast to other photometric methods, where the use of cuvettes can corrupt the results because of smudge or slight variations in the glass thickness, the measurement with **AQUA-CHECK** and **AQUA-CHECK 2** is carried out directly in the sample. Sono cuvettes are needed. The self-calibrating photometers are run by a usual 3 volt button cell (CR2032) which allows up to 1,000 single measurements.



8 Parameters



AQUA-CHECK

AQUA-CHECK has been especially designed for home and hobby users who want to determine eight water parameters in a simple manner. The photometer reliably supports owners of aquariums, pools or ponds in monitoring the most important water parameters on a regular basis. The measuring device is also perfectly suited for research and education applications.

With **AQUA-CHECK** water analyses can be carried out independently from external laboratories as the photometer enables users to check their water quality on their own. The **AQUA-CHECK** complete set contains the necessary equipment for up to 340 single measurements as well as drip tests for measuring the carbonate and total hardness.

Mini-laboratory included

For **AQUA-CHECK**, a special protective cover has been developed. The two parts consist of environmentally friendly and recyclable EPP and can easily be assembled. In no time at all, they are transformed into a waterproof mini-lab!

NH₄⁺
Ammonia

NO₂⁻
Nitrite

NO₃⁻
Nitrate

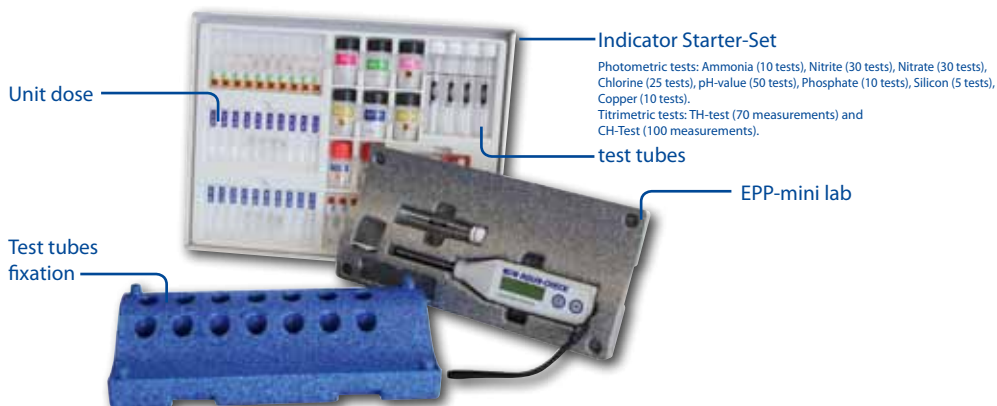
PO₄³⁻
Phosphate

Cu²⁺
Copper

Cl₂
Chlorine

Si
Silicon

pH
pH-value



Indicator Starter-Set

Photometric tests: Ammonia (10 tests), Nitrite (30 tests), Nitrate (30 tests), Chlorine (25 tests), pH-value (50 tests), Phosphate (10 tests), Silicon (5 tests), Copper (10 tests).
Titrimetric tests: TH-test (70 measurements) and CH-Test (100 measurements).

11 Parameters including oxygen



AQUA-CHECK 2

AQUA-CHECK 2 is the photometer for all professional applications where more parameters have to be monitored. In addition to the eight standard values, it can also detect **iron**, **fluoride** and **oxygen** in water. Thanks to the multitude of determinable parameters, the photometer especially meets the demands of fish-breeders, koi-keepers, aquaculturists and water suppliers. **AQUA-CHECK 2** also includes solutions to measure the carbonate and total hardness of water by titration. A total of 390 single analyses can be carried out with the **AQUA-CHECK 2** complete set. Its professional equipment enables mobile but still highly qualified water analyses.

All items always within reach

A robust hard-top case protects the complete analysing equipment which can therefore be transported safely during outdoor operations. Thanks to the clear arrangement of all items, the photometer, the reagents, the sample tubes as well as the timer and safety goggles are always within reach. Thus the preparation time for measurements is reduced to a minimum.



Dosage spoon/
syringe

3-time zone-
timer

Accessories
kit with safety
goggles, -gloves
etc.

Unit-Dose

NH₄⁺ Ammonia	NO₂⁻ Nitrite	NO₃⁻ Nitrate	PO₄³⁻ Phosphate
Cu²⁺ Copper	Cl₂ Chlorine	Si Silicon	pH pH-value
F⁻ Fluoride	O₂ Oxygen	Fe Iron	

Deionized water

Indicator starter-set

Photometric tests: Ammonia (10 tests), Nitrite (30 tests), Nitrate (30 tests), Chlorine (25 tests), pH-value (100 tests), Phosphate (10 tests), Silicon (5 tests), Copper (10 tests), Oxygen (30 tests), Fluoride (10 tests), Iron (10 tests).
Titrimetric tests: TH-test (70 measurements) and CH-test (100 measurements).

Hard shell case

Measuring ranges & single indicators



Parameter	Measuring range	measurable with	measurable with	Content single indicator	Unit
Ammonium (NH ₄ ⁺)	0 – 2,0 mg/L	AQUA-CHECK	AQUA-CHECK 2	10 test-kits	1
				50 test-kits	1
Nitrite (NO ₂ ⁻)	0 – 1,0 mg/L	AQUA-CHECK	AQUA-CHECK 2	50 test-kits	1
Nitrate (NO ₃ ⁻)	6 – 120 mg/L	AQUA-CHECK	AQUA-CHECK 2	50 test-kits	1
pH-value	6,0 – 9,0	AQUA-CHECK	AQUA-CHECK 2	50 test-kits	1
Chlorine (Cl ₂)	0,1 – 1,6 mg/L	AQUA-CHECK	AQUA-CHECK 2	50 test-kits	1
Phosphate (PO ₄ ³⁻)	0,01 – 1,5 mg/L	AQUA-CHECK	AQUA-CHECK 2	10 test-kits	1
				50 test-kits	1
Silicon (Si)	0,05 – 1,0 mg/L	AQUA-CHECK	AQUA-CHECK 2	10 test-kits	1
Copper (Cu ²⁺)	0,02 – 3,0 mg/L	AQUA-CHECK	AQUA-CHECK 2	20 test-kits	1
Iron (Fe)	0,1 – 10,0 mg/L		AQUA-CHECK 2	10 test-kits	1
Fluoride (F ⁻)	0,1 – 1,0 mg/L		AQUA-CHECK 2	10 test-kits	1
Oxygen (O ₂)	2,5 – 18,0 mg/L		AQUA-CHECK 2	30 test-kits	1
TH-Test		measurable without photometer	measurable without photometer	up to 70 tests	4
CH-Test		measurable without photometer	measurable without photometer	up to 100 tests	4

Safe, clean and fast

For a precise dosage of the reagents, the coloured chemical indicators are packed in single dose ampoules.

Opened by a simple break, they are ready for immediate usage – a routine which ensures a straight forward preparation and fast results!



Simply innovative technology

To analyse water with **AQUA-CHECK** or **AQUA-CHECK 2**, always two measurements have to be carried out per parameter. First, the blank water (reference) is tested. In another sample tube, a colour indicator is added to the water. Then the coloured sample is tested. The photometer compares both values and displays the final measuring result in milligrammes per litre as accurately as to one decimal place.

Excellent performance

AQUA-CHECK and **AQUA-CHECK 2** have convinced both experts and private users. The products have already been awarded a variety of prizes.

AQUA-CHECK 2 as a reference instrument

The German magazine "aquaristik" employed **AQUA-CHECK 2** to determine the preciseness of several water test cases available on the market.

*„In order to decide on the correctness of the measured values, the **AQUA-CHECK 2** photometer by Söll was used. It offers extensive testing facilities and works photometrically.“*

aquaristik, edition 1/2013

Patented and conforming to standards

The functionality of **AQUA-CHECK** and **AQUA-CHECK 2** has been patented by the German Patent and Trade-mark Office (Patent number DE10 2009 025 261). The development was guided by the work regulations for water analysis as postulated by the German "Unified methods for testing water, waste water and sludge".

An accredited laboratory has confirmed that the analysing results obtained with the photometers are in very good accordance with reference methods of different DIN EN and ISO standards.



In 2011, the photometer was elected "fair champion" by the visitors of the Sagraflor trade fair "Garten- & Zooevent".



The jury of the international trade fair for gardening and landscaping awarded **AQUA-CHECK 2** the innovation medal 2012.



Under consideration of his customers' response, pet shop "Zoo Zajac" elected the mobile photometer "product of the year 2012" in aquaristics.



Watch our application video online:
www.aqua-check.de/en/way-of-function-en.html

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