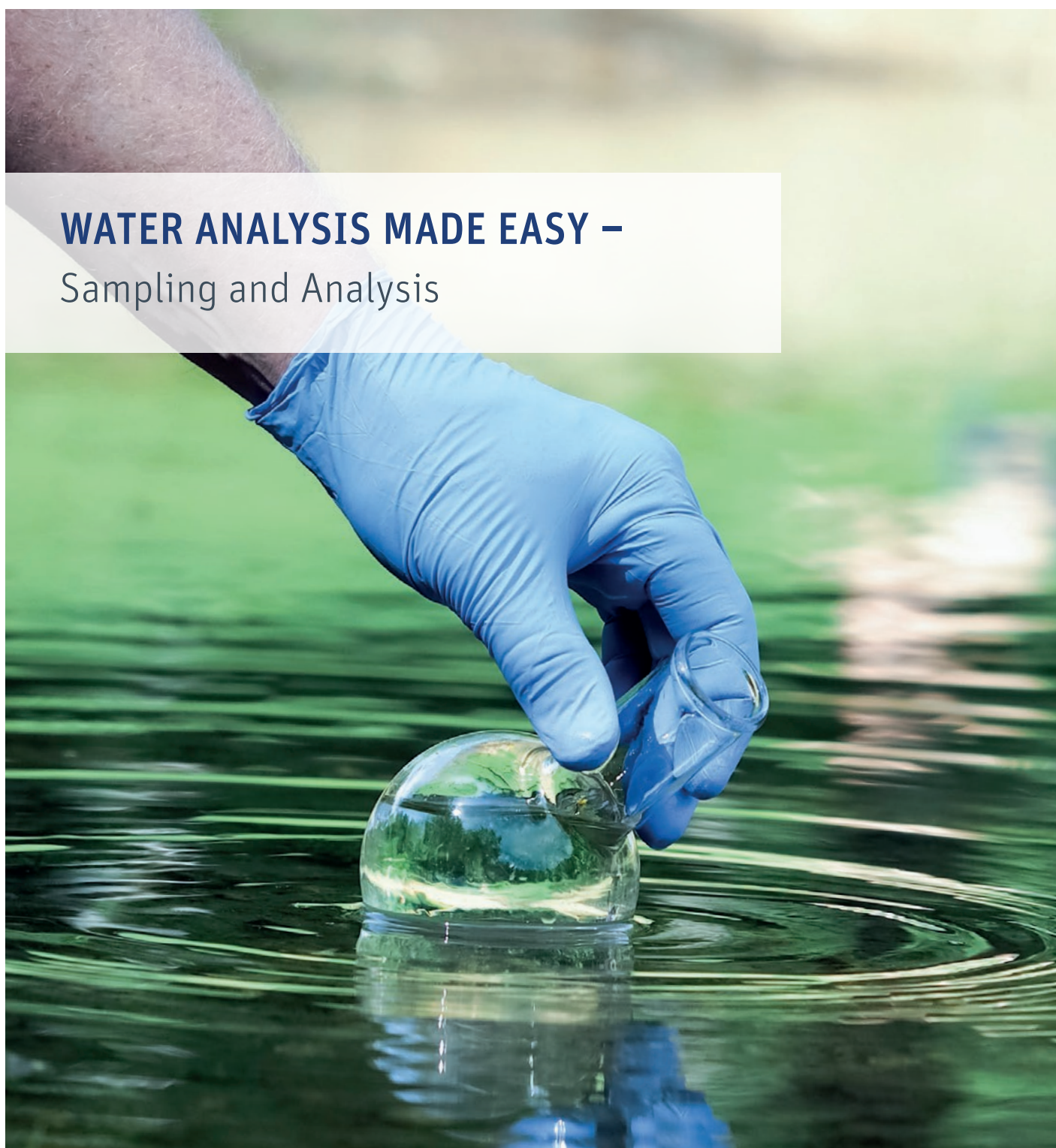




FLEISCHHACKER

WATER ANALYSIS MADE EASY – Sampling and Analysis



Water and Wastewater Analysis Made Easy

NANOCOLOR photometers from MACHE-REY-NAGEL are universally suitable for use in all areas of water and wastewater analysis. In addition to the analysis of municipal and industrial effluent, drinking water, process water, surface water, groundwater as well as cooling and boiler feed water, NANOCOLOR photometers are also used for quality control in various industrial sectors such as the food and beverage industry.

With just one instrument, the entire analytical process can be carried out reliably and efficiently. The NANOCOLOR photometers are not only suitable for use with standard methods, but also for specialised applications such as colour measurements.



VISOCOLOR® Environmental Kit

Including PF-12Plus, calibration cuvette, test kits, accessories, manual, instructions and certificate.

Item no.: 7328462



Compact Photometer PF-12Plus

The PF-12Plus compact photometer is a bespoke instrument for mobile water analysis. Equipped with more than 100 pre-programmed methods, it is the ideal companion for all areas of water and wastewater analysis. Thanks to the specially positioned 860 nm LED, the PF-12Plus enables the measurement of nephelometric turbidity (NTU) in the range of 1–1,000 NTU. The unique NTU Check automatically monitors turbidity during every measurement.

- Wavelengths: 345/436/470/540/585/620/690 nm
- Sample cell: round cuvette (16 mm OD)
- Display: backlit graphic display, 128 x 64 pixels
- Dimensions: 215 x 100 x 65 mm
- Weight: 0.7 kg

Item no.: 7189231



Go directly to
the Photometers

Spectrophotometer NANOCOLOR® Advance

The NANOCOLOR Advance spectrophotometer combines the key features of the portable PF-12Plus compact photometer and the high-precision NANOCOLOR VIS II spectrophotometer. It delivers precise and reliable measurement results in day-to-day laboratory work and, thanks to its rechargeable battery, can also be used on the go.

- Wavelength range: 340–800 nm
- Sample cells: round cuvettes (16 mm and 24 mm inner diameter), rectangular cuvettes (10 mm, 20 mm, 40 mm and 50 mm)
- Display: backlit display
- Dimensions: 325 x 280 x 130 mm
- Weight: 3.8 kg

Item no.: 7739326

Spectrophotometer NANOCOLOR® VIS II

The NANOCOLOR VIS II spectrophotometer is a high-precision measuring instrument for analysis in all areas of water and wastewater analysis. With this new spectrophotometer, MACHERY-NAGEL is revolutionising day-to-day laboratory work, combining high-quality, high-tech components with outstanding user-friendliness.

- Wavelength range: 320–1,100 nm
- Sample cells: Round cell (16 mm inner diameter), rectangular cells (2 mm, 10 mm, 20 mm, 40 mm and 50 mm)
- Display: 10.1-inch LED HD touchscreen
- Dimensions: 360 x 400 x 110 mm
- Weight: 4.0 kg

Item no.: 7181658



Go directly to
the Thermoblock machines



Thermoblock NANOCOLOR® VARIO Mini

The NANOCOLOR VARIO Mini is a compact thermoblock for mobile analysis. Thanks to its compact size and flexible power supply via your car's cigarette lighter, sample digestion is no longer a challenge, even when you're on the move. Be flexible, save time and benefit from the quick and reliable on-site performance of all sample digestions required in water and wastewater analysis.

- Graphic display, 128 x 64 pixels
- 6 x 16 mm holes
- Temperatures: 70 °C, 100 °C, 120 °C, 148 °C, 150 °C and 160 °C

Item no.: 7748896



Thermoblock NANOCOLOR® VARIO C2

The NANOCOLOR VARIO C2 enables the rapid and reliable performance of all sample digestion procedures required in water and wastewater analysis for up to 12 samples simultaneously. Standard parameters for routine digestions, such as COD, TOC, total nitrogen, total phosphorus and metals, are already pre-programmed and help to prevent errors.

- Colour LCD touchscreen
- 12 x 16 mm holes
- Temperatures: 70 °C, 100 °C, 120 °C, 148 °C, 150 °C, 160 °C and 6 further free programme slots

Item no.: 7140500

Microlitre Pipettes and Tips

100–1.000 µL
Item no.: 7168135

1.000 µL (1.000 Pcs)
Item no.: 7311398

500–5.000 µL
Item no.: 7311199

5.000 µL (1.000 Pcs)
Item no.: 5810202



NANOCOLOR® Round-Bottomed Flask Tests and NANOCONTROL® Standards



Item no.:	Designation/Parameter	Measurement range	Measurement range 2
6014110	Ammonium 3	0.04–2.30 mg/L $\text{NH}_4\text{-N}$	0.05–3.00 mg/L NH_4^+
6018417	Ammonium 10	0.2–8.0 mg/L $\text{NH}_4\text{-N}$	0.2–10.0 mg/L NH_4^+
6025444	Ammonium 50	1–40 mg/L $\text{NH}_4\text{-N}$	1–50 mg/L NH_4^+
804691827	COD 40	2–40 mg/L O_2	
804691826	COD 160	15–160 mg/L O_2	
804691829	COD1500	100–1,500 mg/L O_2	
804691864	Nitrate 50	0.3–22.0 mg/L $\text{NO}_3\text{-N}$	2–100 mg/L NO_3^-
6027523	Nitrate 250	4–60 mg/L $\text{NO}_3\text{-N}$	20–250 mg/L NO_3^-
804691868	Nitrate 2	0.003–0.460 mg/L $\text{NO}_2\text{-N}$	0.02–1.50 mg/L NO_2^-
804691881	Phosphate 5	0.20–5.00 mg/L P	0.5–15.0 mg/L PO_4^{3-}
804691880	Phosphate 15	0.30–15.00 mg/L P	1–45 mg/L PO_4^{3-}
7315868	Total Nitrogen (TNb) 60	3–60 mg/L N	
804685024	Chromate 5	0.05–2.00 mg/L Cr(VI) Sensitive: 0.005–0.500 mg/L Cr(VI)	0.1–4.0 mg/L CrO_4^{2-} Sensitive: 0.01–1.00 mg/L CrO_4^{2-}
804691817	Chlorine/Ozone 2	Chlorine (free): 0.05–2.50 mg/L Cl_2 Chlorine (total): 0.05–2.50 mg/L Cl_2 Ozone: 0.05–2.00 mg/L O_3	
7331224	Sulfate LR 200	20–200 mg/L SO_4^{2-}	
804691819	Chloride 200	0.10–1.00 g/L Cl^-	5–200 mg/L Cl^-

Item no.:	Multi-standard	Parameters
804625011	KA-Procedure 1	Ammonium, CSB, total nitrogen, nitrate, phosphate (ortho)
7769820	KA-Procedure 2	Ammonium, CSB, total and Kjeldahl nitrogen, nitrate, phosphate (total)
804625012	KA Inlet	Ammonium, CSB, total nitrogen, nitrate, phosphate (ortho)

Many other parameters and measurement ranges are available from us on request.



Note:

To determine a reagent blank value, use distilled water (item no.: 010084354) as the sample.



After use, return the round cuvettes to their original packaging. All NANOCOLOR reagent kits are voluntarily taken back by MACHEREY-NAGEL free of charge and disposed of properly at a disposal centre. For further information, please refer to the relevant safety data sheets. These can be downloaded from www.mn-net.com/SDS. A declaration of final disposal may be required.

All-rounder for pH/redox, conductivity, dissolved oxygen and turbidity

The IDS system is a modern, expandable system and is suitable both for direct measurements in the field and for measurements in the laboratory.

With a wide range of sensors available, virtually any task – including depth measurement down to 100 m – can be carried out. In no time at all, pH, conductivity, dissolved oxygen and turbidity can be determined. Calibration data and additional information are stored in the sensors.

Thanks to the structured menu navigation, the IDS system is very simple and intuitive to use.

The single-channel unit – MultiLine® Multi 3510 IDS

The Multi 3510 IDS is the ideal entry-level device for IDS multi-parameter measurement. The universal measurement channel allows all WTW IDS pH, ORP, dissolved oxygen sensors, conductivity cells and turbidity sensors to be connected, either via cable or via a wireless module.

- Sequential multi-parameter measurement
- For data collection in the field: memory for 4,500 automatic and 500 manual entries
- Reliable and robust for mobile use
- Backlit black-and-white graphic display

Includes pH sensor	Item no.: 7315973
Includes conductivity sensor	Item no.: 7319825
Includes oxygen sensor	Item no.: 7769825



Go directly to
the MultiLine® devices

The Multi-Channel Instrument – MultiLine® Multi 3620 IDS

The Multi 3620 IDS, with 2 universal measurement channels, is compatible with all WTW IDS pH, ORP and dissolved oxygen sensors, conductivity cells and turbidity sensors, whether connected by cable or wirelessly via a radio link.

- Interference-free thanks to 2 galvanically isolated universal sensor inputs
- Simultaneous, effortless reading of up to 2 parameters via a brilliant colour graphic display
- Easy to use with a clear menu structure

Includes conductivity sensor
and pH sensor
and oxygen sensor

Item no.: 7304751
Item no.: 7302615

The Right Accessories for the Multi-Parameter Analysers



Technical buffers are used for the calibration and verification of pH readings from photometers. The buffer solutions are precise and traceable to the Physikalisch-Technische Bundesanstalt or the National Institute of Standards and Technology.

Technical Buffer, 1 litre each

pH 4.01	Item no.: 618118700
pH 7	Item no.: 618118702
pH 10	Item no.: 6026737

Many more technical buffers are available from us on request.



Protective armouring

For pH and redox sensors
For conductivity and
oxygen sensors

Item no.: 7769828

Item no.: 7742204



pH Sensor
SenTix® 940
Item no.: 7141266



Conductivity Sensor
TetraCon® 925
Item no.: 7179060

Oxygen Sensor FDO® 925
Item no.: 7143817





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