

Mobile Colorimeters, WTW®

① Mobile colorimeters: the pHotoFlex® series

The colorimeters of this series convince by their sophisticated technology for use on site, comprising an optional LabStation for easy evaluation and execution of laboratory tasks. A large illuminated graphic display guides the user through all functions. A laboratory station with battery and charging function is available as an accessory for the basic battery-operated model (4 AA batteries). Routine data measurement and evaluation can then be performed even more conveniently with an external scanner and evaluation software.

pHotoflex®STD

For all those who only need photometry functions: more than 150 methods.

pHotoflex®pH

Colorimeter with electrochemical pH and redox option. Additional methods for ammonia and carbon dioxide.

pHotoFlex®Turb

Same as pHotoFlex pH, plus turbidity measurement from 0 to 1100 NTU / FNU.

Photometer functions

- 6 wavelengths: 436, 517, 557, 594, 610, 690 nm, LEDs with filter, accuracy < 2 nm
- Extinction range: 0 – 2 E
- 2 cuvette sizes for a large range of concentration: 28 mm, 16 mm; variable cuvette height from 91 to 104 mm for the 16 mm cuvette
- Up to 200 method-related data for a large number of test sets, update over the Internet possible
- Data memory for 1000 measurements
- 100 own methods
- Coloring measurement according to EN ISO 7887 (exactly 436 nm, 517 nm, 610 nm)

pH functions

- pH meter with temperature compensation and 3-point calibration
- pH -2.00 to 16.00 (+/- 0.01), temperature: -5.0 to 100.0 °C
- Automatic buffer recognition: TEC / NIST

Turbidity functions

- IR LED according to DIN 27027/ISO 7027
- Measuring range: 0-1100 NTU / FNU
- Resolution: 0-9.99 NTU: 0.01; 10-99 NTU: 0.1; 100-1100 NT: 1.0
- 3-point calibration with standards (0.02 – 10 – 1000 NTU)

Article	Order No.
pHotoFlex STD, incl. batteries (4 AA)	10 81 21105
pHotoFlex pH pocket photometer, incl. batteries (4 AA)	80 81 51100
pHotoFlex Turb pocket photometer, incl. batteries (4 AA)	80 81 51110

Accessories

Article	Order No.
pHotoFlex rechargeable battery	80 81 51300
Rechargeable battery + mains plug for all pHotoFlex models	
LabStation	80 81 51301
Laboratory station with pHotoFlex software for all pHotoFlex models, incl. rechargeable battery and mains cable, laboratory interface cable (9-pole)	
• simplified operation for routine measurements	
• more functionality (barcode support)	
• easy input and output of data through pHotoFlex software	
Interface cable AK540/B	80 81 52842
Unit/PC (6-pole) via RS232	

Accessories pH

Article	Order No.
pH combination electrode SenTix 41	61 81 21635
pH combination electrode SenTix 41-3	61 81 21636
pH buffer TPL4	61 81 21800
pH buffer TPL7	61 81 28802



② Reagents for photoLab® and photoflex® series

Article	Model	Measuring range	Order No.	PU pc/Pack
Al aluminium RT ¹⁾	14825	0.020-1.20 mg/l Al	80 81 25425	300
NH ⁴ ammonium RT ¹⁾	14752	0.010-3.00 mg/l NH ⁴ -N	80 81 25426	500
NH ⁴ ammonium KT	A6/25	0.20-8.00 mg/l NH ⁴ -N	10 81 25072	25
Pb lead RT ¹⁾	09717	0.010-5.00 mg/l Pb	80 81 25034	50
Cadmium RT ¹⁾	01745	0.002-0.500 mg/l Cd	80 81 25051	55
Cadmium KT	14834	0.025-1.000 mg/l Cd	80 81 25314	25
Chlorine KT free	00595	0.03-6.00 mg/l Cl ₂	80 81 25419	200
Chlorine KT free + total	00597	0.03-6.00 mg/l Cl ₂	80 81 25420	200
Chlorine dioxide RT ¹⁾	00608	0.020-10.00 mg/l ClO ₂	80 81 25017	200
Chromate KT	14552	0.05-2.00 mg/l Cr	80 81 25341	25
Cyanide KT	14561	0.010-0.500 mg/l CN	80 81 25344	25
Cyanide RT ¹⁾²⁾	09701	0.002-0.500 mg/l CN	80 81 25492	100
COD KT	C3/25	10-150 mg/l CSB	10 81 25070	25
COD KT	C4/25	25-1500 mg/l CSB	10 81 25071	25
Iron RT ¹⁾	14761/1	0.005-5.00 mg/l Fe	80 81 25435	1000
Iron RT ¹⁾	14761/2	0.005-5.00 mg/l Fe	80 81 25439	250
Fluoride RT ¹⁾²⁾	14598	0.10-20.0 mg/l F	80 81 25048	100
Total hardness KT	00961	0.7-30.1 °d	80 81 25039	25
Copper RT ¹⁾	14767	0.02-6.00 mg/l Cu	80 81 25441	250
Magnesium KT	00815	5.0-75.0 mg/l Mg	80 81 25043	25
Manganese KT	00816	0.01-5.0 mg/l Mn	80 81 25035	25
Manganese RT ¹⁾	14770/1	0.10-10.00 mg/l Mn	80 81 25442	500
N total KT	14537	0.5-15.0 mg/l N _{total}	80 81 25358	25
Nitrate KT	14542	0.5-18.0 mg/l NO ₃ -N	80 81 25410	25
Nitrate RT ¹⁾²⁾	14773	0.2-20.0 mg/l NO ₃ -N	80 81 25444	100
Nitrite RT ¹⁾	14776/1	0.005-1.000 mg/l NO ₂ -N	80 81 25445	1000
Nitrite RT ¹⁾	14776/2	0.005-1.000 mg/l NO ₂ -N	80 81 25440	335
Nitrate KT ²⁾	N2/25	0,5-25 mg/l NO ₂ -N	10 81 25073	25
Nitrite KT	N5/25	0,01-0,7 mg/l NO ₂ -N	10 81 25074	25
Ozone RT ¹⁾	00607/1	0.010-4.00 mg/l O ₃	80 81 25016	200
Ozone RT ¹⁾	00607/2	0.010-4.00 mg/l O ₃	80 81 25054	1200
Phosphate RT ¹⁾	14842	0.5-30,0 mg/l PO ₄ -P	80 81 25447	400
Phosphate KT (Ptotal)	P6/25	0,05-5,00 mg/l PO ₄ -P	10 81 25075	25
Phosphate KT	P7/25	0,05-1,50 mg/l Pges 0,3-15,0 mg/l PO ₄ -P	10 81 25076	25
Sulfate KT	14548	5,0-250 mg/l SO ₄	80 81 25414	25
Zinc RT ¹⁾²⁾	14832	0.05-2.50 mg/l Zn	80 81 25451	90

Other tests on request, method data can be updated from the Internet.

¹⁾ not for photoLab S6

²⁾ not for photoFlex®

