

Photometric determinations and sensor-based measurements in one robust hand-held instrument with waterproof housing for all conditions

CHEMATEST 35

Water Quality Control

Parameters

Photometry:

- Disinfectants: free, total and combined chlorine, chlorine dioxide, ozone, bromine and iodine by the DPD method
- Cyanuric acid
- pH: photometric with phenol red

Sensor-based:

- pH
- Redox potential (ORP)

Highest Accuracy

- Individual factory calibration of each photometer
- Verification of photometric accuracy with traceable absorption standards
- Use with SWAN Oxycon liquid reagents for reliable results and easy and time-saving handling

User-friendly Operation

- User management and freely configurable sample IDs for comprehensive documentation of results
- Intuitive on-screen instructions; choice between detailed guidance and expert mode for fastest measurements
- Favorites list for quick access to methods

Up-to-date Electronics

- Powerful, USB-charged lithium-ion battery for approx. 5000 measurements
- Memory for 2700 data sets

Scope of Delivery:

CHEMATEST 35 in carrying case, 2x cuvette holder with integrated sealing lid, 4x glass cuvette, brush for cuvettes, sensor protection cap, 6x cleaning wipe, 125 mL dropper bottle, 10 mL syringe, 2x blister pack for 5 reagent bottles each, USB charging cable, warranty card, quick start guide



Sensors:

Digital, maintenance-free sensors with integrated temperature measurement and long service life for pH and redox potential available

Reagents:

Sets for 200 determinations of disinfectants / pH:

- Oxycon Pool: free Cl₂, pH (phenol red)
- Oxycon Chlor: free, total and combined Cl₂
- Oxycon DES: free Cl₂, ClO₂, Br₂, I₂
- Oxycon Ozone: O₃

Set for 40 determinations of cyanuric acid:

- Oxycon CA

Accessory:

Verification kit transmission: set of three cuvettes, zero, low and high absorbance

Order Nr.	CHEMATEST 35	A-70.065.035
Sensors:	<input type="checkbox"/> Swansensor pH CT	A-87.160.014
	<input type="checkbox"/> Swansensor ORP CT	A-87.460.011
Accessories:	<input type="checkbox"/> Verification kit transmission	A-85.153.580
	<input type="checkbox"/> Sensor protection cap	A-70.065.634
Reagents and spare parts:	See www.swan.ch for details and order numbers	

Photometric Specifications

Disinfectant	Measuring range / mg L ⁻¹			Limit of detection (LOD) / mg L ⁻¹
	Low	Medium	High	
Chlorine (free, total, combined)	0.00 – 2.99	3.0 – 5.9	6 – 10	0.01
Chlorine dioxide	0.00 – 5.49	5.5 – 10.9	11 – 19	0.02
Bromine	0.00 – 6.49	6.5 – 12.9	13 – 23	0.03
Iodine	0.00 – 9.99	10.0 – 19.9	20 – 35	0.05
Ozone	0.000 – 0.499	0.50 – 1.99	2.0 – 4.0	0.006
Accuracy	± (LOD + 1 %)	± 5 %	± 10 %	of reading

Parameter	Measuring range	Accuracy
Cyanuric acid	0 – 100 mg L ⁻¹	± 2 mg L ⁻¹ or ± 5 % of reading, whichever is greater
pH (phenol red)	6.50 – 8.00	± 0.1

Sensor Specifications

pH and redox potential:

Digital, maintenance-free sensors for a wide range of applications: potable to wastewater, swimming pool, cooling water

Poisoning-protected reference systems with solid electrolyte and clogging-resistant open junction diaphragm

Temperature range: 0–50 °C
 Pressure: ≤ 2 bar
 Conductivity of sample: ≥ 100 µS/cm
 Reference system: Ag/AgCl
 Solid electrolyte: 3.5 M KCl (AgCl-free)
 Connection: 1 m cable with 4-pin connector
 Supplied with rubber cap
 (1x high-quality sensor protection cap for daily use included in Chematest 35 delivery)

Swansensor pH CT

Measuring range: 1–13 pH
 Resolution: 0.01 pH
 Automatic temperature compensation with integrated sensor

Swansensor ORP CT

Pt-redox electrode with integrated temperature sensor for consistent data records
 Measuring range: –400–1200 mV
 Resolution: 1 mV

SWAN Analytical Instruments AG warrants this SWANSENSOR to be free from all defects for one year from the date of purchase.

Technical Data

Instrument:

Multiparameter photometer with LED light source and digital sensor interface
 Graphic display: 64 x 32 mm
 Key pad with tactile keys
 Bluetooth 4.0 Low Energy interface
 Memory for 2700 data sets
 Languages: English, German, French, Spanish, Italian, Swedish, Danish

Ambient conditions operation: 0–45 °C
 0–100 % rel. humidity (non-condensing)
 Ambient conditions storage: –20–60 °C
 (Different specifications for reagents/sensors.)
 Degree of protection: IP67
 CE- and FCC-conformity

Dimensions, weight:

Powered by high-capacity lithium-ion battery for 5000 measurements or 1 week standby (auto power off after 10 min without input)
 Battery status indicator on display
 Charging time 3 h at standard USB type A ports

Instrument: 10 x 7 x 22 cm, 390 g
 Carrying case: 46 x 12 x 38 cm, 3.1 kg (including content)