

CheckitDirect Photometer



Highlights

- Waterproof electronics
- Scroll Memory
- Automatic Switch-Off
- Real-Time Clock and Date
- Calibration Mode
- Illuminated Display
- Memory for 16 data sets

A versatile range of portable photometers for the pool and spa water treatment

The microprocessor-controlled CheckitDirect photometers are pre-programmed for specific test methods and factory-calibrated. The CheckitDirect units supply accurate, reproducible results very quickly.

Other major advantages include ease of operation, ergonomic design, compact dimensions and safe handling.

The tests are conducted using either Lovibond® tablet reagents with long-term stability and a guaranteed minimum 5 or 10 year shelf life, with VARIO Powder Packs or using Lovibond® liquid reagents.

Scroll Memory

To avoid unnecessary scrolling for the required test method, the instrument memorizes the last method used before switching off the instrument. When the instrument is switched on again, the scroll list comes up with the last used test method first.

Calibration certificate

Beside the "Certificate of Compliance" which is supplied with each CheckitDirect, calibration certificates are available at cost on request. Calibration certificates are individually supplied per instrument and per method.

The Calibration Certificate has to be ordered together with the new instrument. A later certification is possible after sending in the instrument only.

Delivery Content

- Instrument in carrying case
- 9 V battery
- 3 round vials (glass) with lids
- 1 stirring rod, 1 brush & 1 syringe
- Tablet reagents and/or liquid reagents or VARIO Powder reagent
- Guarantee sheet
- Certificate (COC)
- Instruction Manual



Technical data

Optics	temperature-compensated LEDs and photosensor amplifier in water proof sample chamber
Power supply	9 V powerpack battery providing 40 hours operation
Auto - OFF	automatic switch-off
Display	backlit LCD (on keypress)
Storage	internal ring memory for 16 data sets
Additional feature	real time clock and date
Calibration	factory calibration and user calibration. Reset to factory calibration possible
Dimensions (L x W x H)	190 x 110 x 55 mm
Weight	0.4 kg (base unit)
Environmental conditions	Temperature: 0–40 °C rel. humidity: 30–90% (non condensing)

CE-Conformity

You can find updated information on parameters and measuring ranges on our website at www.tintometer.com

- ➔ Please see pages 41 onwards for methods, variations and ranges
- ➔ Please see pages 50 onwards for reagents (order codes)

Accessories

Item	Code
Set of 12 round vials with cap Height 48 mm, Ø 24 mm	19 76 20
Set of 5 round vials with cap Height 48 mm, Ø 24 mm	19 76 29
Cleaning cloth for vials	19 76 35
Cleaning set for sample chamber	12 40 60
Measurement beaker, 100 ml	38 48 01
Cleaning brush, 11 cm length	38 02 30
Plastic stirring rod, 13 cm length	36 41 00
Plastic stirring rod, 10 cm length	36 41 09
Battery lid with screws	19 80 11 63
9 V-battery	19 50 01 2

Reference Standard Kits for CheckitDirect

The reference standards are designed to check the accuracy and the reliability of the results.

The shelf life of reference standards is two years from the date of production, provided that storage and use are in accordance with the instructions provided.

Kit Chlorine Tablet/Liquid Test 0.2* and 1.0* mg/l	20 56 00
Kit Chlorine Tablet/Liquid Test 0.5* and 2.0* mg/l	20 56 05
Kit Chlorine Tablet/Liquid Test 1.0* and 4.0* mg/l	20 56 06
Kit Chlorine Powder Reagent Test (VARIO) 0.2* and 1.0* mg/l	20 56 40
Kit pH Tablet/Liquid Test 7.45* pH	20 56 10
Kit Cyanuric Acid Tablet Test 80 mg/l	20 56 20

* Approximate figure, actual figure specified in certificate of analysis enclosed

CheckitDirect +



Each CheckitDirect + is programmed for **several** test methods



Variations

Item	Determination	Code
2 in 1	Chlorine, pH-value ¹⁾	26 89 40
2 in 1	Chlorine, pH-value with VARIO DPD Free/Total Chlorine (Powder)	26 99 60
2 in 1	Copper, pH-value ¹⁾	26 72 10
3 in 1	Chlorine, pH-value, Bromine ¹⁾	26 61 80
3 in 1	Chlorine Dioxide, Chlorine LR, HR ¹⁾	26 88 00
3 in 1	Chlorine, pH-value Alkalinity-M (total) ¹⁾	26 89 00
3 in 1	Chlorine, pH-value, Alkalinity-M (total) ²⁾	26 89 30

¹⁾ with **tablet reagents** for chlorine and pH

²⁾ with **liquid reagents** for chlorine and pH

Item	Determination	Code
3 in 1	Chlorine, pH-value, Cyanuric Acid ¹⁾	26 60 10
3 in 1	Chlorine, pH-value, Cyanuric Acid ²⁾	26 82 00
4 in 1	Chlorine, pH-value, Cyanuric Acid, Alkalinity-M (total) ¹⁾	26 60 50
4 in 1	Chlorine, pH-value, Cyanuric Acid, Alkalinity-M (total) ²⁾	26 60 54
4 in 1	Chlorine, pH-value, Cyanuric Acid, Urea ¹⁾	26 92 20
4 in 1	Chlorine, pH-value, Alkalinity-M (total), Urea ¹⁾	26 62 90

Item	Determination	Code
5 in 1	Chlorine, pH-value, Cyanuric Acid, Alkalinity-M (total), Calcium Hardness ¹⁾	26 61 20
5 in 1	Chlorine, pH-value, Cyanuric Acid, Alkalinity-M (total), Iron ¹⁾	26 62 40
6 in 1	Chlorine, pH-value, Cyanuric Acid, Alkalinity-M (total), Calcium Hardness, Bromine ¹⁾	26 61 90
6 in 1	Chlorine, pH-value, Alkalinity-M (total), Copper, Iron ¹⁾	26 62 10

➔ Reference standard kits see page 39

➔ Please see pages 50 onwards for reagents (order codes)

Test	λ (nm)	Display	Range	Resolution	Reagents
Alkalinity-M (total)	605	CaCO ₃	5 – 200 mg/l	1.0 mg/l	Alka-M-Photometer
Bromine ★	528	Br	0.02 – 13 mg/l	0.01 mg/l	DPD No.1
Calcium Hardness	528	CaCO ₃	0 – 500 mg/l	1.0 mg/l	Calcio H No.1 / No.2
Chlorine ★ free, combined**, total	528	Cl ₂	0.01 – 6 mg/l	0.01 mg/l	DPD No.1/No.3 Tablet Reagents
Chlorine ★ free, combined**, total	528	Cl ₂	0.01 – 4 mg/l	0.01 mg/l	DPD- Liquid Reagents
Chlorine ★ free, combined**, total	528	Cl ₂	0.01 – 2 mg/l	0.01 mg/l	VARIO DPD Powder Free/Total Chlorine***
Chlorine HR	470	Cl ₂	5 – 200 mg/l	1.0 mg/l	Acidifying GP/Chlorine HR
Chlorine Dioxide ★	470	ClO ₂	0.02 – 11 mg/l	0.01 mg/l	DPD No.1
Copper ★	528	Cu ²⁺	0.05 – 5 mg/l	0.01 mg/l	Copper No.1 / No.2
Cyanuric Acid	528	Cys	2 – 160 mg/l*	1.00 mg/l	Cyanuric Acid
Iron	528	Fe ^{2+/3+}	0.02 – 1 mg/l	0.01 mg/l	Iron LR
pH-Value	528	pH	6.5 – 8.4 pH	0.01 pH	Phenolred Photometer
Urea	660	CH ₄ N ₂ O	0.1 – 2.5 mg/l 0.2 – 5.0 mg/l*	0.1 mg/l	Urease 1/2 AMMONIA No.1/No.2

* by 1:1 sample dilution

** may be calculated by deducting the value free- from total chlorine

*** VARIO DPD-Powder is also suitable for use with Hach-Photometers

★ also suitable for seawater



CheckitDirect

Each CheckitDirect is programmed for **one** test method



Variations

Test	λ (nm)	Display	Range	Resolution	Reagents	Code
Aluminium	528	Al	0.05–0.3 mg/l	0.01 mg/l	ALUMINIUM No.1 / No.2	26 64 00
Ammonia ★	660	NH ₄ -N	0.02–1 ; 0.2–10 mg/l*	0.01 mg/l	AMMONIA No.1 / No.2	26 65 00
Chlorine ★ free, combined, total	528	Cl ₂	0.05–6 mg/l	0.01 mg/l	DPD No.1/No.3 tablet reagents	26 69 00
Chlorine ★ free, combined, total	528	Cl ₂	0.05–4 mg/l	0.01 mg/l	DPD Liquid Reagents	26 70 00
Chlorine ★ free, combined	528	Cl ₂	0.01–2 mg/l	0.01 mg/l	VARIO DPD Free/Total Chlorine Powder Packs (PP)	26 99 50
Hardness, total	528	CaCO ₃	50–500 mg/l	0.1 / 1.0 mg/l	HARDCHECK	26 80 10
Iron ★	528	Fe ^{2+/3+}	0.02–1 ; 0.2–10 mg/l*	0.01 mg/l	IRON LR	26 74 00
Manganese	430	Mn	0.05–4 mg/l	0.01 mg/l	MANGANESE LR 1 / LR 2	26 94 00
Ozone ★	605	O ₃	0.05–0.5 mg/l	0.01 mg/l	OZONE (Indigo)	26 77 00
Phosphate	660	PO ₄	0.05–4 mg/l	0.01 mg/l	PHOSPHATE LR No.1/No.2	26 79 00
Phosphate ★	470	PO ₄ ³⁻	10–100 mg/l	0.1 mg/l	PHOSPHATE HR No.1/No.2	26 78 00
Turbidity	860	NTU	0.01–1100 NTU - FNU - TE/F		No reagents required (see page 64)	26 60 20
Urea	660	CH ₄ N ₂ O	0.1–2.5 ; 0.2–5 mg/l*	0.01 mg/l	UREA-Reagent 1/2 AMMONIA No.1 / No.2	26 85 00

* High range by dilution

★ also suitable for seawater

➔ Reference standard kits see page 39

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