

Wallace & Tiernan® Analyzers/Controllers P15 plus Photometer

The Wallace & Tiernan® photometer P15 plus kit is designed to provide rapid, reliable and precise measurements of the most important water treatment parameters, chlorine, pH value, total alkalinity, ozone, chlorine dioxide and bromine. If organic chlorine products such as isocyanuric acid are used as disinfectant, the photometer P15 plus can also measure the contents of cyanuric acid. The photometer P15 plus is an inexpensive instrument for daily use.

Design

The photometer P15 plus is a compact, ergonomic, easy-to-handle, ready-to-use instrument. The scratchproof foil keypad is virtually acid and solvent resistant and integrated in the splash-proof casing. Since the optical system is completely sealed, the electronic components are hermetically sealed against the entry of water. Its software supported calibration facility qualifies the photometer P15 plus as testing instrument. Power supply of the instrument is ensured by a 9 V standard battery.

Operation

The sample tube filled with the water to be tested is placed into the cell compartment and by pressing the ZERO/TEST button, zeroing is carried out automatically. Then the sample tube is taken out from its compartment and the test chemicals are added to the sample water. After colour development has taken place, the sample tube is placed in the compartment again. By pressing the ZERO/TEST button the measurement is precisely carried out and displayed.

Differentiation of free chlorine and total chlorine is achieved by adding progressively an additional tablet.

Benefits:

- Easy to operate photometer for the most important water treatment parameters
- Additional extensive equipment, available with case
- Integrated automatic error report

Automatic fault recognition is a feature of the photometer P15 plus, for example when the measuring range is exceeded or undershot. The battery charge status, dirt on the optical system and excess sample turbidity are shown on the LCD display.



Product Sheet

Water Technologies

SIEMENS

Technical data

Test ranges:

Chlorine (free, combined, total)	0.05 – 6.0 mg/l
Chlorine dioxide	0.1 – 11.0 mg/l
pH value	6.5 – 8.4
Ozone	0.03 – 4.0 mg/l
Cyanuric acid	1.0 – 80.0 mg/l
Total alkalinity $K_{S4.3}$	0.1 – 4.0 mmol/l
Bromine	0.1 – 13.5 mg/l

Measuring accuracy:

Chlorine (max.)
0.05 – 1 mg/l: ± 0.05 mg/l
1 – 2 mg/l: ± 0.1 mg/l
2 – 3 mg/l: ± 0.2 mg/l
3 – 4 mg/l: ± 0.3 mg/l
4 – 6 mg/l: ± 0.4 mg/l

Chlorine dioxide
0.1 – 1.9 mg/l: ± 0.1 mg/l
1.9 – 3.8 mg/l: ± 0.2 mg/l
3.8 – 5.7 mg/l: ± 0.4 mg/l
5.7 – 7.6 mg/l: ± 0.6 mg/l
7.6 – 11 mg/l: ± 0.8 mg/l

pH value ± 0.1 pH

Ozone
0.03 – 0.67 mg/l: ± 0.03 mg/l
0.07 – 1.3 mg/l: ± 0.07 mg/l
1.3 – 2.0 mg/l: ± 0.13 mg/l
2.0 – 2.7 mg/l: ± 0.20 mg/l
2.7 – 4.0 mg/l: ± 0.27 mg/l

Cyanuric acid ± 5 mg/l

Total alkalinity 0.2 mmol/l

Bromine
0 – 2.3 mg/l: ± 0.12 mg/l
2.3 – 4.5 mg/l: ± 0.25 mg/l
4.5 – 6.8 mg/l: ± 0.45 mg/l
6.8 – 9 mg/l: ± 0.68 mg/l
9 – 13 mg/l: ± 0.90 mg/l

Display:

3 1/2-digit digital display,
giving direct readings in mg/l, mmol/l and pH units

Operation:

Keypad
(virtually acid and solvent resistant)

Measuring cycle:

approx. 3 seconds

Resolution:

Chlorine, chlorine dioxide, ozone, bromine	0.01 mg/l
pH	0.01 pH
Total alkalinity $K_{S4.3}$	0.01 mmol/l
Cyanuric acid	0.1 mg/l

Power supply:

9 V battery (standard)

Shut-off time:

approx. 10 minutes after last pressing of a key –
data loss

Ambient temperature:

approx. 0 – 40 °C

Humidity:

approx. 30 – 90 % rel. (non-condensing)

Dimensions (H x W x D):

P15 *plus* photometer: 55 x 190 x 110 mm
Case: 95 x 280 x 230 mm

Weight:

P15 *plus* photometer: approx. 0.35 kg
Case: approx. 0.9 kg

Optical system:

Temperature compensated LED, filter 528 nm and photo sensor
amplifier in protected cell compartment

Scope of supply:

Item	Quantity
Photometer P15 <i>plus</i>	1
10 ml moulded glass tubes with threaded stoppers	3
DPD No. 1 tablets	50
DPD No. 3 tablets	50
Phenolred/photometer tablets	50
Alka-M tablets	50
9 V battery	1
Stirring rod	1
Cleaning brush	1
Carrying case	1
Instruction manual German/English/French	1

For easy operation the DPD reagents are also available in liquid
form.

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