

Wallace & Tiernan® Analyzers/Controllers

P15 plus Photometer

General

The Wallace & Tiernan® P15 *plus* photometer 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 disinfectants, the P15 *plus* photometer can also measure the contents of cyanuric acid. The P15 *plus* photometer is an inexpensive instrument for daily use.

Design

The P15 *plus* photometer is a compact, ergonomic, easy-to-handle, ready-to-use instrument. 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 P15 *plus* photometer as a 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 sample water is added to the test chemicals. After color 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.

Key Benefits

- Automatic fault recognition
- Integrated real-time clock and date display
- Storage of 16 data sets
- Illuminated display
- Count-down function

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

Automatic fault recognition is a feature of the P15 *plus* photometer, 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

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Parameter	Display	Measuring range	Resolution	Method
Chlorine free, combined*, total	CL2	0.01 – 6.0 mg/l	0.01 mg/l	DPD with reagent tablet
Chlorine free, combined*, total	CL2	0.01 – 4.0 mg/l	0.01 mg/l	DPD with liquid reagent
Chlorine dioxide	CLO	0.02 – 11.0 mg/l	0.01 mg/l	DPD/Glycine
pH value	PH	6.5 – 8.4	0.01	Phenolred
Ozone	O3	0.01 – 4.0 mg/l	0.01 mg/l	DPD
Cyanuric acid	CYS	1.0 – 80.0 mg/l	1.00 mg/l	Melamin
Total alkalinity	S:4.3	0.1 – 4.0 mmol/l	0.01 mmol/l	Acid indicator
Bromine	Br	0.02 – 13.0 mg/l	0.01 mg/l	DPD

* Combined chlorine: Differentiation of free chlorine and total chlorine

Technical data

Optical system:

Temperature compensated LED and photo sensor amplifier in protected cell compartment

Power supply:

9 V battery, capacity 40 h
Automatic shut-off after 10 minutes

Display:

Illuminated LCD (keystroke)

Storage:

Internal storage of 16 data sets

Clock time:

Real-time clock and date

Adjustment:

User and factory calibration, reset to factory calibration possible at any time

Operation:

Keypad
(virtually acid and solvent resistant)

Dimensions (H x W x D):

55 x 190 x 110 mm

Weight:

approx. 400 g

Environmental conditions:

Temperature: 0 – 40 °C
Humidity: approx. 30 – 90 % rel. (non-condensing)

Scope of supply

Item	Quantity
P15 plus photometer	1
10 ml moulded glass tubes with threaded stoppers	3
DPD No. 1 tablets	100
DPD No. 3 tablets	100
Phenolred/photometer tablets	100
Alka-M tablets	100
9 V battery	1
Stirring rod	1
Cleaning brush	1
Carrying case	1
Instruction manual German, English, French	1

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