

# 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<br>German, English, French    | 1        |



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