

# PCcompact

## 4 in 1 Multi-Parameter Photometer

- **Automatic zero calibration**
- **Short measurement cycle – approx. 3 seconds**
- **LED with long-term light stability**
- **Uses long-life tablet reagents**
- **SMD microprocessor technology**
- **Large digital display**
- **Software-based calibration adjustment facilities**
- **All you need in one case**



The principle of photometric detection in water analysis is that, following the addition of a reagent system, the absorption or transmission of monochromatic light (light of one wavelength) is used to measure the concentration of a specific substance in the water.

### **Instrument specifications**

The PC compact 4 in 1 photometer provides is programmed for 4 detection methods and supplies accurate and reproducible results very quickly. The other advantages of the equipment are ease of operation, ergonomic design, compact dimensions and safe handling.

Light emitting diodes (LED's) are used as a light source; these LED's have long-term stability giving monochromatic light emission with minimum power input.

The sample chamber (the most critical part of any photometer) is fully sealed, so no water can access the electronic components. Cleaning is simple.

The size of the sample chamber ensures easy cleaning of the light ports.

The PC compact may be used as test equipment with internal software-based calibration facilities.

Battery operation makes the unit suitable for both field use and laboratory applications.

### **Reagent Tablets**

A photometer is only ever as good as its indicator system. This is why Aqualytic Reagent tablets with a 5 year shelf life guarantee are recommended for use with the PC compact Photometer. Each tablet is individually sealed in aluminium foil and is therefore not exposed to the ambient influences. It remains fresh right up to the time is it removed from the foil. The possibility of ageing effects on the indicator is therefore almost ruled out.

### **Handling of Reagent Tablets**

One of the advantages of the easy handling and exact reagent metering of the tablets is the accuracy of analysis. This is particularly important when working in the unfavourable conditions typically experienced in field analysis.



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Technical Data	
Measurement cycle:	Approx. 3 seconds
Display:	LCD-display
Optics:	Temperature-compensated LED $\lambda_1=555\text{nm}$ , filter 528nm; $\lambda_2=605\text{nm}$ , (If necessary)
Sample Chamber:	waterproof
Keypad:	3 key polycarbonate film splash proof.
Power supply:	9V power pack battery 40 hours capacity
Auto-Off:	Automatic switch-off approx. 5 minutes after last keypress
Housing:	ABS
Dimensions:	190L x 110D x 55H mm
Weight:	Approx. 0.4 kg (basic unit)
Environmental conditions:	0-40°C, rel. humidity: 30-90% (non condensing)
Approvals:	CE

Test Methods		
Determination	Range	Resolution
Chlorine	0.05-6.0 mg/l	0.01
pH-Value:	6.5-8.4	0.01
Cyanuric Acid:	2-160 mg/l	1.0
Total Alkalinity:	5.0-200 mg/l CaCO <sub>3</sub>	1.0

Each PC compact photometer is provided in a plastic carrying case, with a 9V power pack battery, round vials with covers, tablet reagents for approximately 50 tests of each type, accessories and instruction manual.



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