P7 ADVANCED PHOTOMETER

WALLACE & TIERNAN® ANALYZERS/CONTROLLERS

The handheld P7 Advanced Photometer measures up to seven parameters and is applicable in the treatment of water and waste water, cooling and boiler water as well as pool water, in the beverage industry, laboratories and field testing. A simple button layout, robust waterproof design and large backlit display make P7 Advanced Photometer easy to use and ideal for testing in the field, laboratory or plant room.

The calibration and software based adjustment options mean that the unit is also suitable for use as a testing instrument. The units supply accurate, reproducable results using high quality interference filters with long-life LEDs as a light source. Tests are conducted using tablet reagents which give long-term stability and a guaranteed minimum 5 or 10 year shelf life. Liquid reagents can also be used.

Scroll Memory (SM)

To avoid unnecessary scrolling for the required test method, the instrument memorises the last method used before switching off. When the instrument is switched on again, the last used test method is selected automatically.

Zero Setting (OTZ)

Certain instruments have a One Time Zero (OTZ) function, making it unnecessary to zero the instrument between each test. This allows multiple tests to be performed using the same blank/zero sample until a new parameter is selected.

Key Benefits

- Fast operation due to Scroll Memory and Zero Setting
- Automatic switch off
- Real-time clock and date
- Calibration mode
- Backlit display
- Storage function
- Waterproof case (IP 68), floating

Optional infrared interface

The optional infrared interface module available (IRiM) uses infrared technology to transmit test data to one of 3 interfaces.

TECHNICAL DATA

Parameter	Display	Measuring range	Resolution	Method
Chlorine free, combined*, total	CL2	0.01 – 6.0 mg/l	0.01 mg/l	DPD with reagent table
Chlor free, combined*, total	CL2	0.02 – 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	0.02 – 2.0 mg/l	0.01 mg/l	DPD
Cyanuric acid	CYS	0 – 160 mg/l	1.00 mg/l	Melamin
Acid demand $K_{S4.3}$	S:4.3	0.1 – 4.0 mmol/l	0.01 mmol/l	Acid indicator
Bromine	Br	0.05 – 13.0 mg/l	0.01 mg/l	DPD

* Combined chlorine: Differentiation of free chlorine and total chlorine

Instrument:
three wavelenghts, automatically selected, direct reading colorimeter

Light source:
LEDs, interference filters (IF) and photo sensor in transparent sample chamber. Wavelength specifications of interference filters
530/560 nm Δ λ= 5 nm; 610 nm Δ λ= 6 nm

Power supply:
4 batteries (AAA/LR 03)

Operating time:
17 h or 5000 test measurements in continuous mode when display backlight is off

Auto-OFF:
automatic switch-off, 10 min after last keypress

Display: backlit LCD (on keypress)

Storage: Internal ring memoryfor 16 data sets

Interface:
IR interface for data transfer

Time: real time clock and date

Calibration:
user and factory calibration
resetting to factory calibration possible

Dimensions (H x W x L): 35 x 75 x 155 mm

Weight: approx. 400 g (with batteries)

Ambient conditions:
Temperature: 5 – 40 °C
rel. humidity: 30 – 90 %, non-condensing

Waterproof:
analog IP 68 (1 h at 0.1 m), floating

SCOPE OF SUPPLY:

Equipment	No.
Photometer in plastic case	1
Batteries, 1.5 V	4
DPD No. 1 tablets	100
DPD No. 3 tablets	100
Phenol Red/Photometer tablets	100
Alka-M tablets	100
Screws	4
Screw driver	1
Beaker, 100 ml	1
Cells with screw cap	3
Cleaning brush	1
Stirring rod	1
Instruction manual (English, French, German)	1