

pH-value T M330 6.5 - 8.4 PH Phenol Red

Instrument specific information

The test can be performed on the following devices. In addition, the required cuvette and the absorption range of the photometer are indicated.

Instrument Type	Cuvette	λ	Measuring Range
MD 100, MD 110, MD 200, MD 600, MD 610, MD 640, MultiDirect, PM 600, PM 620, PM 630	ø 24 mm	560 nm	6.5 - 8.4
SpectroDirect, XD 7000, XD 7500	ø 24 mm	558 nm	6.5 - 8.4
Scuba II	ø 24 mm	530 nm	6.5 - 8.4

Application List

- · Boiler Water
- · Pool Water Control
- · Pool Water Treatment
- · Raw Water Treatment

Notes

 For photometric determination of pH values only use PHENOL RED tablets in black printed foil pack and marked with PHOTOMETER.

Distributed By: Camlab Ltd

Unit 24, Norman Way Industrial Estate
Over, Cambridge, CB24 5WE, United Kingdom
T: +44 (0) 1954 233 110 E: sales@camlab.co.uk





Implementation of the provision pH-value with Tablet

Select the method on the device

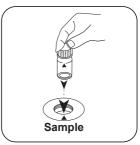
For this method, no ZERO measurements are to be carried out with the following devices: XD 7000, XD 7500



Fill 24 mm vial with 10 ml sample.



Close vial(s).



Place **sample vial** in the sample chamber. • Pay attention to the positioning.

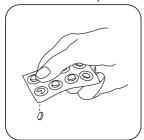




Press the **ZERO** button.

Remove the vial from the sample chamber.

For devices that require no ZERO measurement, start here.



Add PHENOL RED PHO-TOMETER tablet.



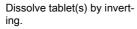
Crush tablet(s) by rotating slightly.

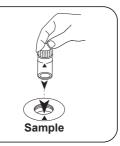


Close vial(s).









Place sample vial in the sample chamber. • Pay attention to the positioning. The result in pH value appears on the display.

Test

Press the **TEST** (XD: START)button.



Chemical Method

Phenol Red

Appendix

Calibration function for 3rd-party photometers

Conc. = a + b•Abs + c•Abs² + d•Abs³ + e•Abs⁴ + f•Abs⁵

Note

Please select items for "Fields".

Interferences

Persistant Interferences

1. Water samples with little Carbonate hardness* can lead to false pH values.

Removeable Interferences

- 1. pH values below 6.5 and above 8.4 can produce results inside the measuring range. A plausibility test (pH-meter) is recommended.
- 2. Salt error

For salt concentrations below 2 g/l, no significant error, is expected due to the salt concentration of the reagent tablet. For higher salt concentrations the measurement values

have to be adjusted as follows:

Salt con- tent per sample in g/l	30 (seawa- ter)	60	120	180	
Correction	-0.15 ¹⁾	-0.21 ²⁾	-0.262)	-0.292)	

¹⁾ according to Kolthoff (1922)

Bibliography

Colorimetric Chemical Analytical Methods, 9th Edition, London

²⁾ according to Parson and Douglas (1926)