xylem

Environmental Solutions

YSI 9800 Photometer

FLEXIBLE PHOTOMETER FOR THE LAB OR FIELD

SPECIFICATIONS

XA00254

YSI

a **xylem** brand

9800 Photometer
Simple. Convenient. Accurate.

The **YSI 9800 Photometer** streamlines water quality analysis through easy, step-by-step instructions for dozens of parameters on a large touchscreen display. A portable, waterproof design makes this the ideal instrument for any water quality application both in the field and lab. The 9800 uses the same reagents as previous photometer models and all reagents are safe and easy to use.

Benefits of the 9800 Photometer

Quick and Accurate Testing
Simple on-screen instructions guide you through dozens of test options

Multiparameter Sampling
Get more comprehensive data with over 30 parameters on a single instrument

Touch Screen Interface
Easily view testing options, settings, and results even when wearing gloves

Rugged Design
Field-ready housing is impact tested, waterproof, and scratch resistant

Data Management
Test results are saved automatically with easy data retrieval

Easy-to-Use Reagents
Reagents are safe to use regardless of form

Select Test
Select from a list of all Tests or Favorite Tests

Users
Add up to 50 user names for increased traceability

Check Standards
The 9800 can be verified with a set of standards

Labels
Use labels to tag data for later filtering

Test Log
View logged data and filter to view subsets

System Settings
Set up and customize your 9800 Photometer

Photometry Made **Simple**

The 9800 Photometer uses an advanced, innovative optical design that allows for accurate and reliable testing both in the lab or field. Perform tests with step-by-step instructions, view and export data, save test logs, and more from the large touchscreen. It's capable of running multiple tests using industry standard methods for over 30 different parameters for a variety of water quality applications.

9800 Photometer Specifications

Instrument Type	Multiparameter Photometer
Wavelengths	430 nm, 465 nm, 530 nm, 575 nm, 620 nm
Accuracy	± 1%T (transmission)
Display	Large, Color LCD
User Interface	Touch screen with walkthrough text instructions
Dimensions	Width: 211 mm (8.3 in) Length: 195 mm (7.7 in) Height: 52 mm (2.0 in)
Weight	0.85 kg (1.87 lbs)
IP Rating	IP-67
Power Supply	6x AA Batteries or through USB
Connectivity	Connect to PC via USB cable
Memory Capacity	1,000 data sets
Battery Life	5,000 tests on one set of batteries
Languages	English, French, Spanish, and Chinese (Simplified)
Certifications	EN61326, EN61010, IP67, and EN60068-2-78

Parameters

Alkalinity, Total	Iron LR
Alkalinity M	Iron MR
Alkalinity P	Iron HR
Aluminum	Magnesium
Ammonia	Manganese
Bromine	Nickel
Calcium Hardness	Nitrate
Chloride	Nitrite
Chlorine Dioxide	Ozone
Chlorine HR	pH- Phenol Red
Chlorine, Combined	Phosphate LR
Chlorine, Free	Phosphate HR
Chlorine, Total	Potassium
Chromium, Hexavalent	Silica
Copper	Sulfate
Cyanuric Acid	Sulfide
Fluoride	Sulfite
Hardness (Total)	Turbidity
	Zinc

9800 Photometer

Reagent Box

Dilution Tube

Absorbent Cloth

Polishing Cloth

Test Tubes (x10)

USB Cable

Syringe

Test Tube Brush

Crush / Stir Rods (x10)

Ordering Information

9800 Photometer Test Kits

Test Kits	Range (mg/L)	Starter (50)	Replace (250)	Sea Water Use[4]
Alkalinity, Total (Alkaphot)	0-500 (CaCO$_3$)	YPM188	YAP188	Suitable
Alkalinity-M (Alkaphot M)	0-500 (CaCO$_3$)	N/A	YAP250	Suitable
Alkalinity-P (Alkaphot P)	0-500 (CaCO$_3$)	N/A	YAP251	Suitable
Aluminum	0-0.5	YPM166	YAP166	
Ammonia	0-1.0 (N)	YPM152	YAP152	Suitable with use of Ammonia Conditioning Reagent YAT1707
Bromine	0-10.0	N/A	YAP060	
Calcium Hardness (Calcicol)	0-500 (CaCO$_3$)	YPM252	YAP252	Suitable under certain circumstances**
Chloride (Chloridol)	0-50,000 (NaCl)	YPM268	YAP268	
Chlorine DPD 1 (free)	0-5.0	YPM011	YAP011	
Chlorine DPD 2 (Mono- and Dichloramine; requires YPM011)	0-5.0	N/A	YAP021	
Chlorine DPD 1&3 (free, combined and total)	0-5.0	YPM031	YAP031	
Chlorine DPD 4 (total)	0-5.0	N/A	YAP041	
Chlorine HR[2]	0-250	YPM162	N/A	
Chlorine Dioxide (DPD)	0-4.0	YPM052	YAP052	
Chromium VI (Hexavalent)	0-1.0	YPM281	YAP281	
Color (includes turbidity)	10-500	YPM269	N/A	
Copper (Coppercol) (free, combined, total)	0-5.0	YPM186	YAP186	
Copper (free)	0.03-5.0	N/A	YAP187	
Cyanuric Acid	0-200	N/A	YAP087	
Fluoride	0-1.5	YPM179	YAP179*	
Hardness (Hardicol)	0-500 (CaCO$_3$)	YPM254	YAP254	
Iron LR[1]	0-1.0	YPM155	YAP155	Suitable
Iron MR[3]	0-5.0	YPM292	YAP292	
Iron HR[2]	0-10	N/A	YAP156	
Magnesium (Magnecol)	0-100	YPM193	YAP193	Not suitable
Manganese	0-0.03	YPM173	YAP173	
Nickel	0-10	YPM284	YAP284*	
Nitrate	0-20 (N)	YPM163	YAP163*	Suitable with filtration of samples
Nitrite (N)	0-0.5 (N)	YPM109	YAP109	Suitable with filtration of samples
Nitrite (NaNo$_2$)	0-1500 (NaNo$_2$)	YPM260	YAP260	Suitable with filtration of samples
Ozone	0-2.0	YPM056	YAP056	
pH (phenol red)	6.8-8.4	YPM130	YAP130	
Phosphate LR[1]	0-4.0	YPM177	YAP177*	Suitable
Phosphate HR[2]	0-100	YPM114	YAP114	Suitable
Potassium	0-12	YPM189	YAP189	
Silica	0-4.0	YPM181	YAP181*	
Silica HR[2]	0-150	YPM290	YAP290*	
Sulfate	0-200	YPM154	YAP154	
Sulfide	0-0.5	YPM168	YAP168*	
Sulfite	0-500 (Na$_2$SO$_3$)	YPM266	YAP266	
Zinc	0-4.0	YPM148	YAP148	Not suitable

* Includes 200 tests   **Filtration of sea water samples required. Calcium salt instrument calibration needed for sample concentrations of over 3,500 mg/L salt
[1] LR denotes low range.   [2] HR denotes high range.   [3] MR denotes mid range
[4] Sea Water Use denotes tests that have been evaluated for sea water testing. Blank notes indicate the test has not been verified

Who's **Minding** *the* **Planet?**®

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