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xylem YSI 9800 Photometer with USB Connection and Memory User Guide

YSI 9800 Photometer
FLEXIBLE PHOTOMETER FOR THE LAB OR FIELD

Contents

 YSI 9800 Photometer with USB Connection and Memory

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

Ordering Information

9800 Photometer Test Kits

Test Kits	Range (mg/L)	Starter (50)	Replace (250)	Sea Water Use4
Alkalinity, Total (Alkaphot)	0-500 (CaCO3)	YPM188	YAP188	Suitable
Alkalinity-M (Alkaphot M)	0-500 (CaCO3)	N/A	YAP250	Suitable
Alkalinity-P (Alkaphot P)	0-500 (CaCO3)	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 (CaCO3)	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 HR2	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 (CaCO3)	YPM254	YAP254	
Iron LR1	0-1.0	YPM155	YAP155	Suitable
Iron MR3	0-5.0	YPM292	YAP292	
Iron HR2	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 (NaNo2)	0-1500 (NaNo2)	YPM260	YAP260	Suitable with filtration of samples
Ozone	0-2.0	YPM056	YAP056	
pH (phenol red)	6.8-8.4	YPM130	YAP130	
Phosphate LR1	0-4.0	YPM177	YAP177*	Suitable
Phosphate HR2	0-100	YPM114	YAP114	Suitable
Potassium	0-12	YPM189	YAP189	
Silica	0-4.0	YPM181	YAP181*	
Silica HR2	0-150	YPM290	YAP290*	
Sulfate	0-200	YPM154	YAP154	
Sulfide	0-0.5	YPM168	YAP168*	
Sulfite	0-500 (Na2 SO3)	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
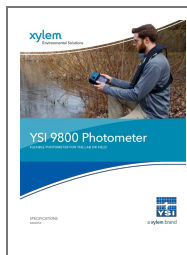
YSI.com/9800

Documents / Resources

xylem YSI 9800 Photometer with USB Connection and Memory [pdf] User Guide
YSI 9800 Photometer with USB Connection, YSI 9800, Photometer with USB Connection, USB Connection

References

- **YSI | Water Quality Sampling and Monitoring Meters and Instruments for dissolved oxygen, pH, turbidity**
- **Portable, Multiparameter Photometer | ysi.com**
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- **Portable, Multiparameter Photometer | ysi.com**
- **User Manual**