

Ox Oxygen

Benchtop Meters

Models 5000 and 5100 Dissolved Oxygen Benchtop Meters

Keypad with tactile keys audible confirmations to reduce errors

- Large LCD is easy to read—even from 10 feet away
- Menu-driven operation makes setup simple

These benchtop meters are easy to use. All meters feature autocalibration, data storage of up to 100 sets, automatic stabilization, and real-time clock. Meters operate on AC power or batteries. Order probes and accessories separately below.

The YSI® 5100 (model 05510-22) calculates the oxygen and specific oxygen uptake rates (OUR and SOUR) via built-in software. Membrane integrity feature indicates when membrane requires replacing. This meter helps you easily comply with U.S. EPA regulations. The built-in barometer automatically compensates readings with no need to enter or correlate barometric pressure values for truly one-button autocalibration.



05510-22

Specifications & Ordering Information



Mode	mg/L (ppm)	% Saturation	Barometric pressure	Temperature
Range	0.0 to 60.0 mg/L	0 to 600.0 % saturation	0.0 to 1500 mbar	-5.00 to 50.0°C
Resolution	0.01 mg/L + 1 LSD	0.1% saturation	1 mbar	0.01°C
Accuracy	±0.1% + 1 LSD	±0.1% + 1 LSD	±1% + 1 LSD	±0.10°C

Temperature compensation: automatic

Salinity compensation: 0 to 40.0 ppt

Barometric pressure compensation: automatic 450 to 825 mm Hg (600 to 1100 mbar)

Output: bidirectional RS-232

Display: multiparameter LCD

Power: 120 VAC adapter or four alkaline C batteries (all are included)

Battery life: approximately 30 hours

Dimensions: 9"W x 9½"H x 4¾"D

Catalog number	Description	Power	Price
KH-05510-20	5000 Oxygen benchtop meter	115 VAC	
KH-05510-25		230 VAC	
KH-05510-22	5100 OUR/SOUR oxygen benchtop meter	115 VAC	
KH-05510-27		230 VAC	

Technical info

Did you know...

The YSI 5100 dissolved oxygen benchtop meter offers built-in SOUR software to meet U.S. EPA 503 regulations for testing biosolid stability. In addition, SOUR and OUR are valuable process control tools because they indicate microorganism biological activity.

OUR=Oxygen Uptake Rate
SOUR=Specific Oxygen Uptake Rate

Accessory/Meter Compatibility Chart

Specifications & Ordering Information

Catalog number	Description	YSI 5000 (05510-20)	YSI 5100 (05510-22)	Price
Dissolved oxygen (DO) and BOD probes				
KH-05519-42	Self-stirring BOD bottle probe, 115 VAC; includes membrane cap kit 05519-61 and 5-ft cable	Yes*	Yes*	
KH-05510-64	Wine DO probe; includes 30 membranes and 4-ft cable	Yes	Yes	
KH-05510-60	Self-stirring BOD probe; includes membrane cap kit 05519-61	Yes	Yes	
KH-05519-10	Nonstirring BOD bottle probe allows for manual stirring or stirring with magnetic stirrer. Order either standard membrane kit or high-sensitivity membrane kit (05522-00 or -10) separately below	Yes*	Yes*	
Membranes				
KH-05519-61	Membrane cap kit; includes 6 membranes, sanding disc, and 5.25 g of KCl crystals	Yes	Yes	
KH-05522-00	Standard membrane kit; includes 30 membranes and 5.25 g of KCl crystals	Yes†	Yes†	
KH-05522-10	High-sensitivity membrane kit; includes 30 membranes and 5.25 g of KCl crystals	Yes†	Yes†	
Accessories				
KH-05510-62	BOD probe adapter for probes 05519-42 and 05519-10	Yes	Yes	



05519-10

05510-60

*BOD probe adapter model 05510-62 required for use with these meters. †For use with nonstirring BOD bottle probe 05519-10.