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YSI 5000 and 5100 Laboratory Benchtop Meters

Proven Instruments for Dissolved Oxygen and BOD Testing



Ease of use, data integrity, expanded range, enhanced digital capabilities - the YSI 5000 Series is engineered to meet the need of highly accurate, reliable dissolved oxygen measurements, primarily to determine BOD but also Oxygen Uptake Rate (OUR) and Specific Oxygen Uptake Rate (SOUR).

YSI 5000/5100 Instruments

The YSI **5000** features menu-driven operation and a large LCD. Internal memory for 100 data sets with date/time stamp eliminates the need for manual entry of readings. Auto calibration is as simple as the press of a button. Multitasking is enhanced with the auto-stabilization capability, which enables you to predetermine a stable reading and be alerted to that condition.

The full-featured YSI **5100** instrument offers even greater performance and flexibility including built-in software for OUR/SOUR (oxygen uptake rate and specific oxygen uptake rate) measurement and one step calibrations with no charts or pressure look-ups.



YSI 5000/5100 with the 5010 self-stirring BOD probe simplifies BOD testing. Auto-cal feature on the instruments makes calibration possible with the press of one button.

- Stores 100 data sets
- PC interface
- Large graphic display and keyboard profile
- Bar code compatible*
- Built-in barometer for auto-calibration*
- On-board software for OUR/SOUR measurement*

YSI 5010 Self-Stirring BOD Probe

- Self-stirring probe eliminates need for stir plates.
- Fits standard 300-mL BOD bottles. Available adapters allow for the use in additional BOD bottles.
- Extremely convenient screw-on cap membranes.
- User-serviceable probe keeps it on your lab.

* Only available on the YSI 5100

** 5905 BOD probes will work with a 5011 adapter (all probes and adapters are ordered separately)

YSI 5000 Information

Features	Benefits
Menu-driven operation	Ease of use
Compatible with YSI BOD probes	Less investment needed; User-replaceable parts
Large LCD	Easy-to-read from 10 feet
Internal memory for 100 data sets	No manual transcribing
Compatible with YSI BOD Analyst Pro software	Auto BOD calculations; no errors
RS-232 interface	Compatible with PC lab information systems
Probe power through instrument	Fewer cables in workspace
Computer interface control	Control functions from keyboard
Audio & tactile keyboard response	Keystroke confirmation reduces errors
Autostabilization	Alerts to predetermined stable condition
User-upgradable internal software	Ensures upgrade without downtime
Real-time clock	Date-stamped stored data

YSI 5100 Information (provides these additional features & benefits beyond the 5000)

Features	Benefits
Built-in OUR/SOUR software	Eases use with USEPA 503 regulations & for operational control
Internal barometer	No external barometer or look-up charts required
Automated calibration	Reduces manual steps; saves time
Barcode compatibility	Automatic bottle numbering
Port for computer keyboard	Quick data entry from keyboard

YSI 5000 & 5100 Specifications

Accuracy	mg/L	$\pm 0.1\% + 1 \text{ lsd}$	Resolution	mg/L	0.01
	% air	$\pm 0.1\% + 1 \text{ lsd}$		% air	0.1%
	temperature	$\pm 0.1^\circ \text{ C}$		temperature	0.1° C
Range	mg/L	0-60 mg/L	Power	battery & AC	
	% air	0-600%			
	temperature	-5 to $+50^\circ \text{ C}$			

BOD Analyst Pro™ for Windows®

Features
Normalize to a 5, 7, 20, or 28 day BOD, when final readings are early or late.
Read data directly from the YSI 5000 or 5100 Dissolved Oxygen Instrument or enter it from the keyboard in spreadsheet format.
Make graphs more meaningful by plotting statistics that are of interest.
Eliminate errors by requiring bottle number entry via barcode scanner. Bottle numbers can also be entered via the YSI 5000 or 5100 keypad or a PC keyboard.

YSI 5000 & 5100 Ordering Information

050022	Model 5000 Laboratory Dissolved Oxygen (115V)
051004	Model 5100 Laboratory Dissolved Oxygen with Built-in OUR/SOUR Software (115V)
051200	Model 5120 BOD Analyst Pro for Windows®
050102	Model 5010 Self-Stirring BOD Probe
059880	Model 5906 Screw-On Cap Membranes, 6 Membranes with Solution

YSI

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