

LAB DISSOLVED OXYGEN INSTRUMENTS

Ease of use, higher accuracy, expanded range, enhanced digital capabilities — the YSI 5000 Series saves time and increases efficiency with features such as auto calibration, large graphic display, and low-profile keypad. Microprocessor-based, YSI 5000 instruments will store 100 sets of data and are equipped with RS-232 interface for direct link to your computer. Both models upgrade by floppy disk, eliminating the need to ship units back to YSI in order to take advantage of future software.

YSI 5100 Instrument

The full-featured YSI 5100 instrument offers performance and flexibility with auto calibration and built-in OUR/SOUR software to meet USEPA 503 regulations. OUR/SOUR are valuable process control tools because they indicate the biological activity of microorganisms used in treatments.

- Built-in barometer
- Programmable auto stabilization
- Internal pressure-compensated calibration
- Integrity function indicates membrane damage
- Bar code compatibility with scanner unit eliminates the need to manually maintain bench sheets
- Real-time clock

YSI 5000 Instrument

The basic model features menu-driven operation and a large, liquid-crystal display. Auto stabilization lets you predetermine a stable reading. With YSI BOD Analyst™ for Windows™, the YSI 5000 performs BOD calculations and lets you transfer control to your computer's keypad. Audio and tactile keypad responses let you know when you've entered keystrokes, reducing errors and uncertainty.



Dissolved Oxygen Meter Performance Specifications

YSI Model	5100	5000	52	55	58	95	85
Readout	LCD	LCD	LCD	LCD	LCD	LCD	LCD
Accuracy mg/L % air temperature	$\pm 0.1\% + 1 \text{ lsd}^*$ $\pm 0.1\% + 1 \text{ lsd}^*$ $\pm 0.1^\circ\text{C}$	$\pm 0.1\% + 1 \text{ lsd}^*$ $\pm 0.1\% + 1 \text{ lsd}^*$ $\pm 0.1^\circ\text{C}$	± 0.03 $\pm 0.1\% + 1 \text{ lsd}^*$ $\pm 0.1^\circ\text{C}$	$\pm 0.3^{**}$ $\pm 2\%$ $\pm 0.2^\circ\text{C}$	± 0.03 $\pm 0.3\%$ $\pm 0.3^\circ\text{C}$	$\pm 0.2^{**}$ $\pm 2\%$ $\pm 0.2^\circ\text{C}$	$\pm 0.3^{**}$ $\pm 2\%$ $\pm 0.1^\circ\text{C} \pm 1 \text{ lsd}$
Range mg/L % air temperature	0-60 0-600% -5 to +50°C	0-60 0-600% -5 to +50°C	0-20 0-200% -5 to +45°C	0-20 0-200% -5 to +45°C	0-20 0-200% -5 to +45°C	0-50 0-500% -5 to +45°C	0-20 0-200% -5 to +45°C
Resolution mg/L % air temperature	0.01 0.1% 0.01°C	0.01 0.1% 0.01°C	0.01 0.1% 0.1°C	0.01 0.1% 0.1°C	0.01 0.1% 0.1°C	0.01 0.1% 0.1°C	0.01 0.1% 0.1°C
Power	Battery & AC	Battery & AC	Battery & AC	Battery	Battery & AC	Battery	Battery
Recorder Output	No	No	No	No	Yes	No	No
Salinity Comp	Yes	Yes	Yes	Yes	Yes	Yes	Automatic
Temp Comp	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Other Features	RS-232 OUR/SOUR Memory	RS-232 BOD Memory	RS-232 Memory Field/lab	Handheld Backlit display	Chart recorder output	Patented MEA sensor Handheld	Autoranging Handheld Conductivity

*Least Significant Digit

**Performance of meter/probe system

DO Accessories

Membranes for DO Probes

Our standard 1-mil sheet membranes are perfect for most applications. If measuring below 15°C or at low DO levels, use YSI's high-sensitivity 0.5-mil Teflon membranes. To measure very high DO levels or for longer term monitoring, use 2-mil membranes in the YSI Membrane Kit, which are less affected by biofouling and reduce DO sensitivity.

YSI 5775

Membrane Kit with KCl (30 standard membranes)

YSI 5793

Membrane Kit (150 standard membranes)

YSI 5776

Membrane Kit with KCl (30 high-sensitivity membranes)

YSI 5794

Membrane Kit (150 high-sensitivity membranes)

YSI 5685

Membrane Kit with KCl (30 low-sensitivity membranes)

YSI 5905 and 5010 Self-Stirring BOD Probes

The YSI 5905 provides vigorous stirring for accurate measurement and faster response time. Designed for easy maintenance, the stirrer pulls out for quick replacement of the easy-to-install cap membranes. Compatible with 300 mL BOD bottles, the YSI 5905 comes with a flexible power cord and a 1-year warranty. Usable with all YSI oxygen meters except the YSI 55, 85, and 95. The YSI 5010 offers the same features and is designed for YSI 5000 Series instruments.

YSI 5905 Probe

YSI 5906 Membrane Kit

Includes 6 cap membranes and a bottle of KCl solution

**International version
BOD probes are
available. Contact
your YSI Dealer for
information.**



YSI 5239 Field Probe

A rugged, field DO probe with easy-to-replace cap membranes, the YSI 5239 DO and temperature sensor is compatible with YSI 50 Series meters (except the YSI 55). Weighted and protected by a heavy-duty guard, the YSI 5239 is optimized for YSI microprocessor-based systems.

YSI 5239-10

Probe with 10' (3 m) cable

YSI 5239-25

Probe with 25' (7.6 m) cable

YSI 5239-50

Probe with 50' (30.5 m) cable



YSI 5739 Field Probe

The versatile polarographic electrode is easy to use and maintain. Screw-apart construction lets you quickly change from one cable length to another or replace either probe or cable without replacing the entire assembly. Automatic pressure compensation corrects for hydrostatic pressure. A guard protects the sensing elements and rugged construction withstands extreme environments. The built-in weight reduces current effects. For measuring in shallow water where hydrostatic pressure compensation is not required, use a YSI 5718 Probe with 12-foot cable (3.7 m). Both probes include a YSI 5775 Membrane Kit.

YSI 5739

Requires a cable

YSI 5718

12-foot (3.7 m) cable attached



Non-Stirring YSI 5750 BOD Probe

This non-stirring BOD probe fits standard 300 mL BOD bottles; it requires sample agitation with a magnetic stirrer. The probe comes with a 5-foot (1.5 m) cable and connects to any YSI dissolved oxygen meter (except the YSI 55, 85, 95, and 5000 Series). Includes a YSI 5775 Membrane Kit.

5740 Cable Assemblies for 5739 Field DO Probes

These detachable cables connect the YSI 5739 Field Probe to any YSI DO meter (except the YSI 55, 85, and 95). Six lengths are standard, but we'll make other lengths on special order in 25-foot (7.6 m) increments.

YSI 5740-10

10' (3 m) cable

YSI 5740-25

25' (7.6 m) cable

YSI 5740-50

50' (15.2 m) cable

YSI 5740-100

100' (30.5 m) cable

YSI 5740-150

150' (45.7 m) cable

YSI 5740-200

200' (61 m) cable

Membranes for DO Probes

Our standard 1-mil sheet membranes are perfect for most applications. If measuring below 15°C or at low DO levels, use YSI's high-sensitivity 0.5-mil Teflon membranes. To measure very high DO levels or for longer term monitoring, use 2-mil membranes in the YSI Membrane Kit, which are less affected by biofouling and reduce DO sensitivity.



5775 Membrane Kit



5906 Membrane Kit

YSI 5775

Membrane Kit with KCl (30 standard membranes)

YSI 5793

Membrane Kit without KCl (150 standard membranes)

YSI 5776

Membrane Kit with KCl (30 high-sensitivity membranes)

YSI 5794

Membrane Kit without KCl (150 high-sensitivity membranes)

YSI 5685

Membrane Kit with KCl (30 low-sensitivity membranes)

YSI 5906 Membrane Kit

Includes 6 cap membranes and a bottle of KCl solution

	YSI 85	YSI 95	YSI 55	5739 Probe	5239 Probe (All lengths)	5718 Probe	5750 Probe	5905/5010 Probes
5775 Membrane Sheet Kit (1 mil)			◆	◆		◆	◆	
5776 Membrane Sheet Kit (1/2 mil)			◆	◆		◆	◆	
5685 Membrane Sheet Kit (2 mil)			◆	◆		◆	◆	
5906 Membrane Cap Units (.8 mil)	◆				◆			◆
9501 Membrane Cap Units (.8 mil)		◆						
9502 Membrane Cap Units (.5 mil)		◆						
5680 Probe Reconditioning Kit			◆	◆		◆	◆	
5238 Probe Reconditioning Kit					◆			
9503 Probe Reconditioning Kit		◆						
5945 O-Ring Kit				◆			◆	
5986 Diaphragm Kit				◆				
5740 Cables				◆				