

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.



YSI 5010 Probe

The YSI 5010 self-stirring probe uses a single cable for direct plug-in to 5000 Series instruments and features easy-to-change cap membranes and a removable stirrer paddle.



BOD Analyst™ for Windows™

For automated 5-day BOD calculations, BOD Analyst for Windows software is an easy and accurate way to ensure Standard Methods Rules for acceptance of BOD. It captures 1st and 5th day results, performs calculations, and prints reports.

- Auto stabilization lets you set the parameters that determine stable DO readings
- Allows export of data to other programs, including Lotus, dBase, Excel, and any LIMS
- Reduces human error by letting you set alarms for out-of-range temperatures and super-saturated samples

BOD analysis is even easier when you add a bar code reader. One swipe of the reader records the BOD bottle number, DO concentration, temperature, and time of day.

[8 0 0 7 6 5 - 4 9 7 4]

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	±0.1% +1 lsd* ±0.1% +1 lsd* ±0.1°C	±0.1% +1 lsd* ±0.1% +1 lsd* ±0.1°C	±0.03 ±0.1% +1 lsd* ±0.1°C	±0.3** ±2% ±0.2°C	±0.03 ±0.3% ±0.3°C	±0.2** ±2% ±0.2°C	±0.3** ±2% ±0.1°C ±1 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

YSI DO CLASSICS

Portable, easy-to-use, and rugged, YSI Classics for lab and field are versatile meters that continue to please customers, worldwide.

YSI 58 DO Meter

Useful for your lab or field work, the YSI 58 DO Meter displays oxygen concentrations in two temperature-compensated modes on an LCD. With broad ranges, this meter is especially convenient for measuring super-saturated water, such as samples with oxygen-producing algae. The meter offers manual salinity correction, recorder output, and operation from line power or batteries. The case also holds batteries for an optional field stirrer.

Note: For detailed specs on the YSI 52 and 58, see Lab Dissolved Oxygen section.



YSI 52 DO Meter

The portable YSI 52 is easy to use for field and lab work. Internal memory stores up to 70 readings. An easy-to-read LCD provides clear, simultaneous display of time, temperature, and % and mg/L oxygen. Standard RS-232 port with communications software provides PC connectivity. Six D cells provide hours of operation. Packaged in a water-resistant case.

[800 765 - 4974]

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