Pro●●DO®

Handheld Optical Dissolved Oxygen Meter

Specifications

WE KNOW™
D.O.

The Best in Dissolved Oxygen just got **Optical.**

ProO·DO

Digital Optical Dissolved Oxygen Meter

YSI ODO® technology reduces the time required calibrating and maintaining sensors while utilizing a user replaceable sensing element that requires approximately an annual replacement. There are no electrodes to clean or solutions to change. Based on usage, calibrations can be stable for up to one year and are stored in each sensor.

Expanded DO range of 0-500% with a response time of T90 in approximately 25 seconds

Non-consumptive luminescent method eliminates stirring

Easy to read graphic, backlit display and keypad for use in any lighting condition

Truly field-worthy, impact resistant, IP-67 waterproof case and connectors; rubber over molded, non-slip case, for extra durability and grip

User-replaceable cables in lengths of 1 to 100-meters; cable management kit included with 4- through 30-meter cables

Pro Comm II allows USB connectivity for use with Data Manager software and powers the instrument

Stores 5000 data sets (sensor data, date, time, site and user defined information)

Multiple languages include English, Spanish, French, Italian, Norwegian, Portuguese and German. Asian language support in the future.

3-year instrument warranty; 2-year cable and probe warranty

YSI Optical BOD Probe
ProOBOD™ - Use in the lab with the ProODO®

Smart sensor retains calibration in the probe

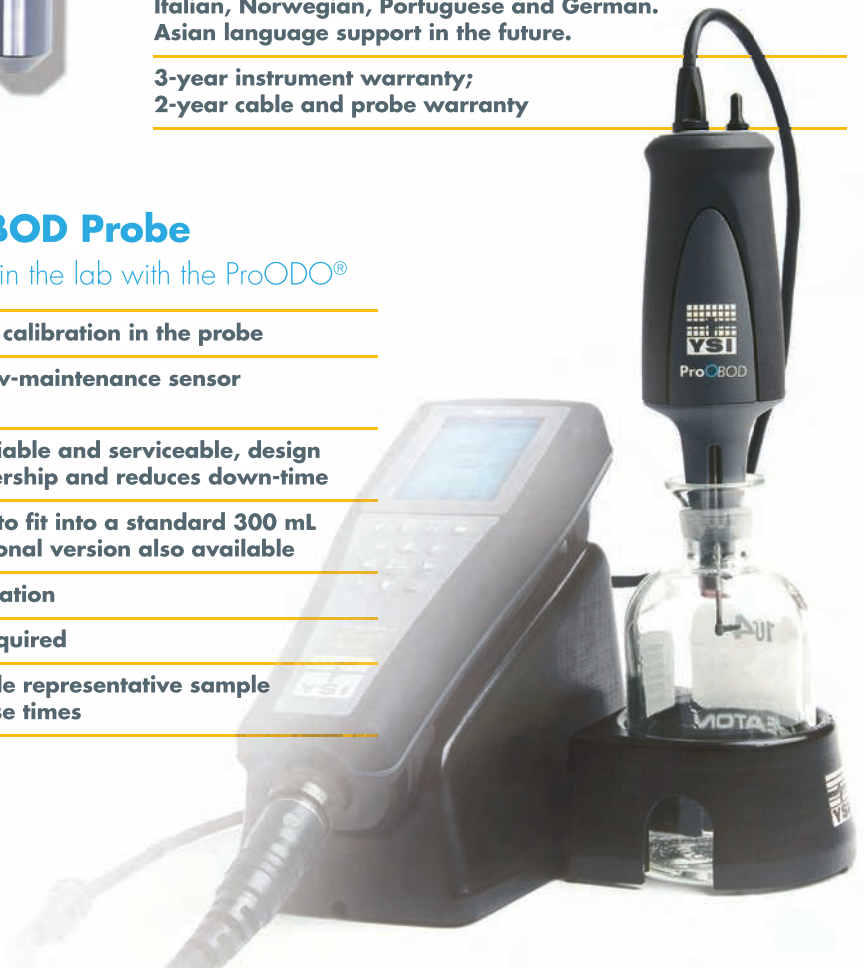**User-replaceable, low-maintenance sensor with +1-year life**

2-year warranty; reliable and serviceable, design reduces cost-of-ownership and reduces down-time

Probe body tapered to fit into a standard 300 mL BOD bottle; international version also available

Extremely quiet operation

No warm-up time required

Self-stirring to provide representative sample and improve response times

Tougher

Easy-to-install cable weights; can be daisy-chained for additional weight

Rubber, over-molded IP-67 waterproof case (even without battery cover)

Rugged cables, sensors, and military-spec connectors

Drop-tested 1 meter at all angles

Scratch-resistant lens; viewable with polarized glasses

Instrument floats

Weighted, user-replaceable cable lengths

In the Field

The ProODO® is the best handheld optical dissolved oxygen instrument on the market. Its combination of versatility, field-worthy durability, and data management are second to none. YSI employee owners have verified the ProODO's rugged design with a waterproof rating, and rigorous drop, cable flex, and strength tests. You'll receive extreme confidence with every purchase. The feature set in this instrument is so extensive, we encourage you to visit ysi.com/proODO or contact us to learn more.

With ODO technology, oxygen is constantly moving through the diffusion layer, affecting the luminescence of the sensing layer.

This ProODO was submerged in freezing waters during a lake study. This is confidence in YSIs ruggedness.

This connector had no problems after a 1/2 mile trip down a gravel road. In fact, the meter had no problems either.

The YSI MS (military spec), waterproof, bayonet-style keyed connectors are far superior to plastic connectors.

www.YSI.com/tougher

Smarter

O·DO® **Optical DO**

- **5000 data set memory**
- **Free, Data Manager desktop software & ProComm II saddle; USB connection also powers the instrument**
- **Interval or single-event logging**
- **100 folder & site list data structure**
- **Password protection**
- **Detailed GLP data**
- **1-point or 2-point calibration with zero cal**
- **User-adjustable auto-stable with prompts**
- **User-upgradeable software via waterproof USB port**
- **Search function filters user-defined data information**
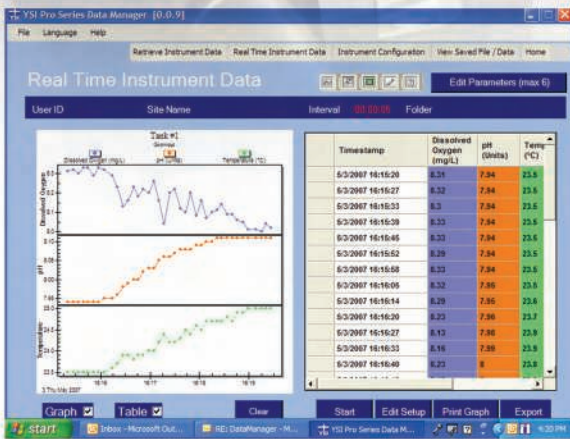
Now Even Smarter in the Lab

The ProODO utilizes "smart" sensor technology which stores calibration data within the sensor. This allows probes to be placed on any ProODO instrument without re-calibration.

The instrument also provides multiple languages, detailed GLP data including sensor diagnostics, on screen Help to eliminate the need for manuals, security passwords, and much more.

The new laboratory BOD probe, ProOBOD, can easily be connected to the instrument to provide a unique optical BOD in a very compact footprint. The OBOD has a super, quite stirrer to improve response times and provide a representative sample.

**Ask us about
BOD Analyst Pro software**

FREE Data Manager Software

- Easy-to-use software to manage all your data studies
- View, print and export graphical and tabular data
- View and print GLP data
- Quickly configure just one or multiple instruments
- Conduct real-time studies

The new ProOBOD probe makes lab BODs even easier - and more accurate

Specifications

ProODO System Specifications (instrument with cable and probe)

Dissolved Oxygen (% saturation)	**Sensor Type**	Optical (dynamic luminescence quenching lifetime detection)
	Range	0 to 500% air saturation
	Accuracy	0 to 200% air saturation, ± 1% of the reading or ± 1% air saturation, whichever is greater; 200 to 500% air saturation, ± 15% of the reading
	Resolution	0.1% air saturation
Dissolved Oxygen (mg/L)	**Sensor Type**	Optical (dynamic luminescence quenching lifetime detection)
	Range	0 to 50 mg/L
	Accuracy	0 to 20 mg/L, ± 0.1 mg/L or ± 1% of reading, whichever is greater; 20 to 50 mg/L, ± 15% of the reading
	Resolution	0.01 or 0.1 mg/L (auto-scaling)
Temperature (°C, °F, °K)	**Range**	-5 to 70°C
	Accuracy	± 0.2°C
	Resolution	0.1°C
Barometer (mmHg, inHg, mBar, Psi, KPa)	**Range**	375 to 825 mmHg
	Accuracy	± 1.5 mmHg from 0 to 50°C
	Resolution	0.1 mmHg

ProODO Additional Specifications

Storage Temperature	-20 to 70°C
Size	8.3 cm width x 21.6 cm length x 2.3 cm depth (3.25 in x 8.5 in x 2.25 in)
Weight with batteries	475 grams (1.05 lbs)
Probe Dimensions	19 cm length (7.5 in); 2.4 cm diameter (0.95 in)
Power	2 alkaline C-cells; approximately 80 hours - ambient conditions in manual sampling mode
Cable Lengths*	1- 4- 10- 20- 30- 40- 50- 60- and 100-m; (3.3, 13.1, 32.8, 65.6, 98, 131, 164, 197 and 328 ft)
Connectors	MS (military spec) waterproof with bayonet lock
Warranty	3-year instrument; 2-year cable and probe; 1-year sensor cap
Salinity Input Range	0-70 ppt; manual (automatically compensates for manual input value)
Data Memory	5000 data sets (sensor data, date, time, site and user defined information)
Flow Dependence	None
Typical Response Time	90% in 25 seconds; 95% in 45 seconds
Calibration	DO - one point or two point with a zero % value; barometer - one point
Languages	English, Spanish, German, French, Italian, Norwegian, Portuguese; Asian language support in the future
Certifications	RoHS, CE, WEEE, C-Tick, VCCI, IP-67, 1-meter drop test, Assembled in USA
Connectivity	USB 2.0; communications saddle and USB cable included
Data Management	Data Manager desktop software included; 100 user defined folders and site names
User ID	Optional User ID for data security
Measurement/ Logging Modes	Automatic and Manual sampling modes/Continuous and Interval logging modes
GLP Compliant	Yes
Probe/Sensor Materials	The following materials may come into contact with the sampling environment: Xenoy® PBT Polycarbonate blend, Noryl, Stainless Steel, Titanium, Polyurethane, Santoprene, Acrylic, Polystyrene

* special order cables up to 100-meters in 10-meter increments

YSI ProOBOD Probe Specifications

Accuracy	mg/L	0-20 mg/L, ±0.1 mg/L or ±1% reading, whichever greater; 20-50 mg/L, ±15% reading
	% air	0-200%, ±1% reading or ±1%, whichever greater; 200-500%, ±15% reading
	temperature	±0.2° C
Range	mg/L	0-50 mg/L
	% air	0-500% air saturation
	temperature	Ambient (10 to +40° C); Compensation (-5 to +50° C)
Resolution	mg/L	0.01
	% air	0.1%
	temperature	0.1° C
Warranty		2-years; 1-year sensor cap
Cable Length		3-meters (6 feet)
Power		External 110-230 VAC power supply with DC input to sensor
Sensor Type		Optical; dynamic luminescence quenching lifetime detection
Typical Response Time		95% in 22 seconds with stirring; 95% in 40 seconds without stirring
Certifications		RoHS, CE, WEEE, IP-65, Assembled in USA

603069 belt clip

603062 cable management kit

603075 soft-sided carrying case with ProODO, cable, and accessories

YSI.com/ProODO
YSI.com/ProOBOD

Ordering Information

WE KNOW D.O.™

visit ysi.com/weknowDO
View Dissolved Oxygen technology webinars, videos, selection guides, product spec sheets and more at our dissolved oxygen resource page.

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View product demos, field studies, and instrument installations.

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ECO CALCULATIONS REPORT

YSI, Inc. saved the following resources by using U2:XG made with 30% post-consumer recovered fiber.

trees	energy	greenhouse gas	waste water	solid waste
1	0.6 million BTUs	313.59 lbs CO2	335 gal	55 lbs

U2:XG is FSC-certified, contains 30% post consumer recovered fiber, and is manufactured with electricity in the form of renewable energy.
U2:XG is manufactured by Appleton Coated   www.appletoncoated.com

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