Pro●DO™

Handheld Optical Dissolved Oxygen Meter

The new **ProODO**™ provides traditional YSI quality in a handheld dissolved oxygen instrument with luminescent optical dissolved oxygen (DO) technology. The ProODO utilizes "smart" digital sensor technology which stores calibration data within the sensor. This allows probes to be placed on any ProODO instrument without re-calibration.

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.

Optical technology also increases DO accuracy and eliminates probe fouling by common gases such as hydrogen sulfide.

- **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**
- *Designed to fit in standard 300 mL BOD bottles.* **An external stir plate may be required to ensure a representative sample.**
- **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-meter and longer cables**
- **USB connection allows interaction with powerful desktop Data Manager software**
- **Stores 2000 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**

The ProODO is a digital signal instrument. Any ProODO cable can be connected and used on any ProODO instrument for the field or in a lab BOD bottle. The luminescent optical probes hold the calibration information internally.

O·DO™
Optical DO

Pure
Data for a
Healthy
Planet.®

YSI *incorporated*
Who's Minding
the Planet?™

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	0.01°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	2000 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

ProODO Ordering Information (order items separately)

626281	ProODO Handheld instrument
626320	Replacement sensing element (included with initial probe purchase)
626250-1	1-m probe/cable for DO/temp
626250-4	4-m probe/cable for DO/temp (includes cable management kit)
626250-10	10-m probe/cable for DO/temp (includes cable management kit)
626250-20	20-m probe/cable for DO/temp (includes cable management kit)
626250-30	30-m probe/cable for DO/temp (includes cable management kit)
626250-40	40-m probe/cable for DO/temp (includes cable management kit)
626250-50	50-m probe/cable for DO/temp (includes cable management kit)
626250-60	60-m probe/cable for DO/temp (includes cable management kit)
626250-100	100-m probe/cable for DO/temp (includes cable management kit)

603069 belt clip

603062 cable management kit

Accessories Ordering Information (visit ysi.com/accessories)

603075	Soft-sided carrying case
603074	Hard-sided carrying case
603069	Belt clip to attach instrument to belt
063517	Ultra clamp (attach to instrument to secure it to a desk, boat, etc)
063507	Small tripod (attach to instrument to sit on any flat surface)
603062	Cable management kit (included with 4- through 100-m cables)
605978	Cable weight, 4.9 oz, attach to stainless steel probe guard

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

* Special order cable lengths up to 100-meters in 10-meter increments available.