

# Pro2030 vs ProSolo ODO/CT Comparison

MEASURING D.O. JUST GOT EASIER! COMPENSATE FOR SALINITY IN REAL TIME!



The ProSolo ODO/CT is the most versatile handheld for measuring DO in applications where salinity varies. With the addition of an optical sensor and the digital technology the ProSolo ODO/CT is more stable, more accurate, and allows for cables up to 100 meters.

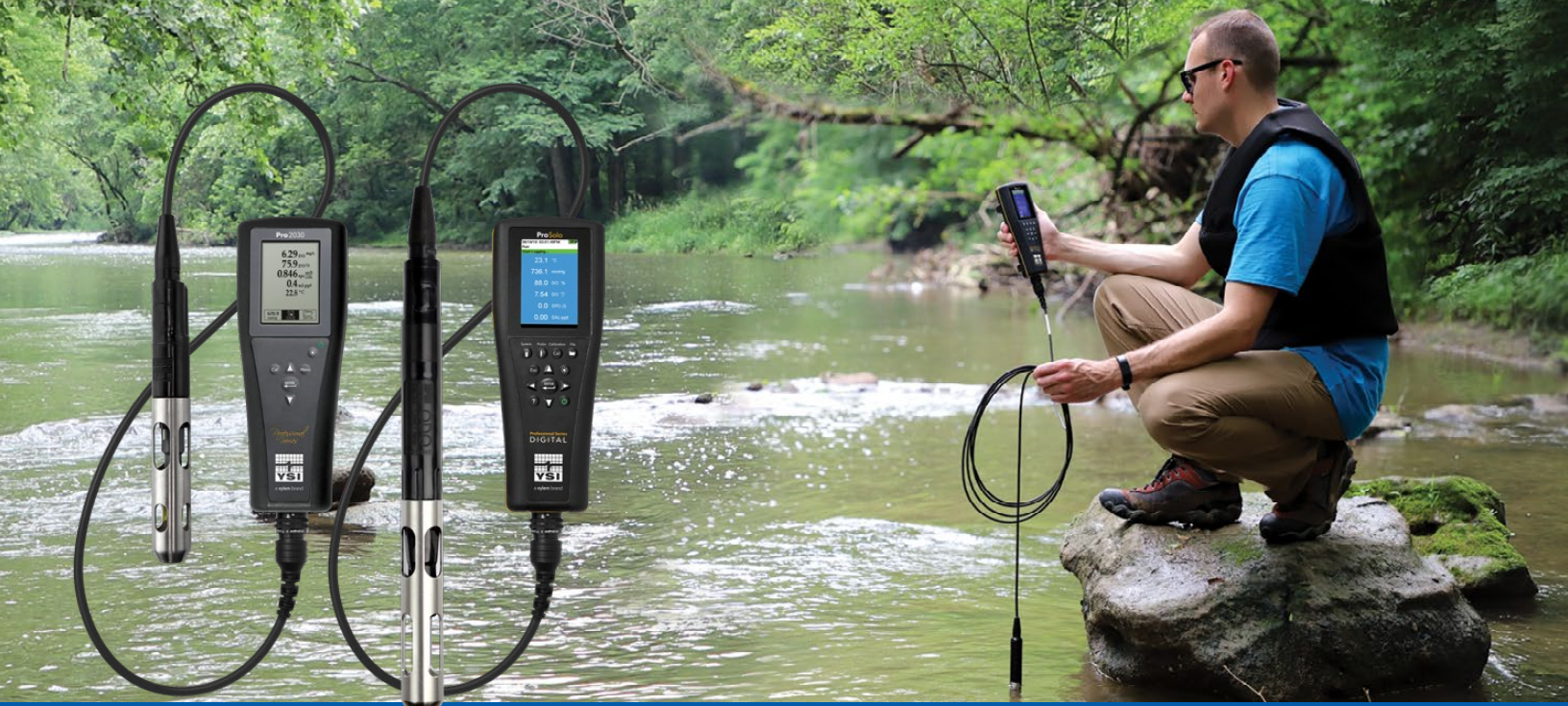


The **YSI Pro2030** and **YSI ProSolo ODO/CT** (with an ODO/CT cable assembly) are water quality systems that measure dissolved oxygen (DO), conductivity, barometric pressure and temperature. The conductivity sensors on these instruments allow for real-time salinity-compensated DO measurements, so they are ideal for measuring DO in applications where salinity varies such as estuaries, wetlands, coasts, and aquaculture.

The ProSolo with an ODO/CT cable features many advantages over the Pro2030. Don't know why? *Let us show you.*



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The Pro2030 and ProSolo ODO/CT are ideal water quality instruments when measuring in environments such as estuaries, wetlands, coasts, and aquaculture.

## KEY DIFFERENCES Pro2030 and ProSolo ODO/CT

- **Dissolved Oxygen Sensor:** The Pro2030 features an *electrochemical* DO sensor with a screw-on cap membrane that requires regular replacement. The ODO/CT assembly features an *optical* DO (ODO) sensor. Optical sensors are more convenient because they require less maintenance with no membrane changes, no warm-up time, and no stirring in the sample. The optical sensor is also more stable, requires less frequent calibration and has a better accuracy specification.
- **Digital Technology:** ProSolo ODO/CT sensors are auto-recognized, making instrument set-up quick and easy. Sensors also store their calibration and serial number, providing extra data traceability. The digital signal of the ProSolo ODO/CT allows cable lengths up to 100 meters, while the analog signal of the Pro2030 limits cable lengths to 30 meters.
- **Data Management:** The Pro2030 handheld features a basic memory (50 data sets) and it cannot be connected to a PC. The ProSolo ODO/CT handheld features a large memory (>100,000 data sets) with extensive site list and Data ID tag capabilities. Kor Software is included with the ProSolo ODO/CT for easy data management and instrument configuration.  
**Note:** a 2030 cable can be used with the Pro Plus or ProQuatro handhelds which feature PC connectivity and a larger memory (5,000 data sets) than the Pro2030 handheld.
- **USB:** The ProSolo ODO/CT features a USB On-The-Go connector for PC connection, recharging/powering the ProSolo ODO/CT, and sending data directly to a USB stick.
- **GPS:** The ODO/CT cable assembly can be used with the ProDSS handheld which features optional GPS. This ensures data is tied to the correct location and serves as an additional tool when analyzing data.
- **Rechargeable battery:** The ProSolo ODO/CT is powered by a rechargeable lithium-ion battery, while the Pro2030 utilizes alkaline C-cell batteries.
- **Advanced Display:** Unlike the basic Pro2030, the ProSolo ODO/CT features a color screen with backlit keypad for use in any lighting condition. Data can also be viewed graphically during data collection and calibration.

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# Pro2030 vs ProSolo ODO/CT COMPARISON

	 Pro2030	 ProSolo ODO/CT
<b>Handheld Features</b>		
Waterproof - IP67	●	●
Drop Rated (1 meter)	●	●
Salinity Compensation for increased DO accuracy	●	●
Built-in Barometer for increased DO accuracy	●	●
PC Connectivity		●
Built-in 'Help' Function		●
Languages	4	12
Auto Stable	●	●
Backlit Display	●	●
Backlit Keypad	Glow in the dark	●
Display Type	Graphic	Graphic
Color Display		●
Graphing on Display		●
Memory	50 data sets	> 100,000 data sets
Battery Type	C-size alkaline (2)	Rechargeable lithium-ion
Handheld Warranty	3 years	3 years
<b>Cable Features</b>		
User-Replaceable Cable	Yes, cable is replaceable	Yes, probe/cable assembly is replaceable
Cable Connector	Metal Mil-Spec	Metal Mil-Spec
Cable Lengths	1-30 m, various lengths available	1-100 m, various lengths available
Cable Warranty	2 years	2 years
<b>Dissolved Oxygen Sensor Features</b>		
User-Replaceable Sensor	Yes, sensor is replaceable	ODO/CT probe & cable assemblies feature built-in optical sensors to streamline setup and performance
Lab BOD Option	Yes	Yes
Sensor Technology	Membrane covered	Optical luminescent
DO Membrane Type	Cap	None, optical sensor cap is used
DO Warm-Up Time	5-10 minutes for polarographic, none for galvanic	None
DO Stirring Requirement	6 in/sec with yellow cap, 3 in/sec with blue cap	None
DO Accuracy	<b>0-20 mg/L:</b> ± 0.2 mg/L or 2% of reading <b>20-50 mg/L:</b> ± 6% of reading	<b>0-20 mg/L:</b> ± 0.1 mg/L or 1% of reading <b>20-50 mg/L:</b> ± 8% of reading
DO Range	0-50 mg/L	0-50 mg/L
Response Time (T-95)	8 seconds with yellow cap, 17 seconds with blue cap	45 seconds without flow over sensor, 22 seconds with flow over sensor
Sensor Warranty	1 year polarographic; 6 months galvanic	2 years
<b>Available Parameters</b>		
	Dissolved oxygen, BOD, conductivity, salinity, specific conductance, TDS, temperature, and barometric pressure	Dissolved oxygen, BOD, conductivity, salinity, specific conductance, TDS, resistivity, seawater density, temperature, and barometric pressure

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- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

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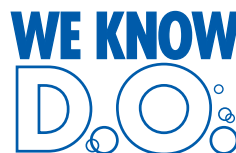
## Pro2030 vs. ProSolo ODO/CT

The diagram compares two handheld water quality meters: the Pro2030 on the left and the ProSolo on the right. Both are connected to their respective sensors. The Pro2030 screen shows DO (6.29 mg/L), DO% (75.9), SpO2 (0.846), Sal (0.4), and Temp (22.8). The ProSolo screen shows Temp (23.1 °C), Pressure (736.1 mmHg), DO% (38.0), SpO2 (7.54), SPC (0.0), and SAL (0.00 ppt). Callouts highlight the following features:

- NEW:** Micro USB Port for on-the-go data transfers and battery recharge (pointing to the ProSolo).
- Improved:** Color screen with backlit keypad. Graphic data collection. (pointing to the ProSolo).
- Improved:** "Data ID" replaces Site Folder for easy data management (pointing to the ProSolo).
- New:** Digital technology allows for easy setup, data traceability, longer cables (pointing to the ProSolo).
- Remaining:** Dependable military spec connectors, cables, and sensors (pointing to the ProSolo).
- Improved:** Optical DO sensor- more convenient requiring less maintenance (pointing to the ProSolo).

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