



Y S I Environmental

YSI Professional Plus Quatro Cable

The Quatro Cable with the Pro Plus Provides the Ultimate Handheld Multiparameter Instrument



The Quatro cable bulkhead shown with four user-replaceable sensors including temperature/conductivity, DO, pH, and ammonium.

The Quatro is a new 4-port cable and bulkhead for the Professional Plus handheld instrument making it possible to measure conductivity and temperature, dissolved oxygen, and your choice of any two ISE's among pH, ORP, ammonium, nitrate or chloride.

All sensors are rugged and designed for true field work to reduce the overall cost of ownership.

- Holds four user replaceable Professional Series sensors for temperature/conductivity, dissolved oxygen and a choice of any two ISE's among pH, ORP, ammonium, nitrate or chloride.
- Rugged and waterproof Military Spec (MS) connectors to connect to the Professional Plus instrument.
- Choose either polarographic or galvanic DO sensors.
- Weighted guard ensures correct depth while protecting the sensors.
- 2-year cable warranty
- Choose among 1-, 4-, 10-, 20- and 30-meter cable lengths.
- Cable management kit included on any cable 4-meters or longer.



The Professional Plus with the Quatro 4-port cable enables you to conveniently sample an entire suite of parameters and easily download that data into the Data Manager desktop software.

As always, the Pro Plus comes with the communications saddle, USB cable, and Data Manager. By adding the Quatro, you can create a one-of-a-kind handheld multiparameter instrument.

To learn more about the Pro Plus visit www.ysi.com/proplus.

Pure
Data for a
Healthy
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www.YSI.com/quatro



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Quatro Cable Specifications

Weight (1-meter cable with sensors)	525 grams (1.15 lbs)
Diameter	4.70 cm (1.85 in)
Probe Guard Length	12.65 cm (4.98 in)
Connector	Military spec (MS), waterproof, bayonet lock

Quatro Ordering Information

605790-1	1-m cable with 4-ports and 5560 temp/conductivity sensor
605790-4*	4-m cable with 4-ports and 5560 temp/conductivity sensor
605790-10*	10-m cable with 4-ports and 5560 temp/conductivity sensor
605790-20*	20-m cable with 4-ports and 5560 temp/conductivity sensor
605790-30*	30-m cable with 4-ports and 5560 temp/conductivity sensor
6050000	Professional Plus instrument (the Quatro can only be used with the Professional Plus)
605202	Galvanic dissolved oxygen sensor
605203	Polarographic dissolved oxygen sensor
605101	pH sensor
605102	ORP sensor
605104**	Ammonium ISE, NH ₄ ⁺ sensor (17-meter maximum depth)
605105**	Chloride ISE sensor (17-meter maximum depth)
605106**	Nitrate ISE sensor (17-meter maximum depth)

Accessories Ordering Information

5913***	1.25 mil PE membranes for galvanic (6 yellow caps/solution)
5908***	1.25 mil PE membranes for polarographic (6 yellow caps/solution)
5914	2 mil PE membranes for galvanic (6 blue caps/solution)
5909	2 mil PE membranes for polarographic (6 blue caps/solution)

Please visit www.yisi.com/accessories for a full line of Professional Series accessories and calibration solutions.

* Includes cable management kit. ** Freshwater only. *** Standard membranes.

The waterproof, military spec connector is designed for true field performance. All YSI cables are designed for rugged field use.



Four ports for user-replaceable sensors. Ports accept a temperature/conductivity combo sensor, DO sensor, and any combination of two ISE sensors among pH, ORP, ammonium, chloride, or nitrate. If a port isn't used simply put a port plug in it's place.



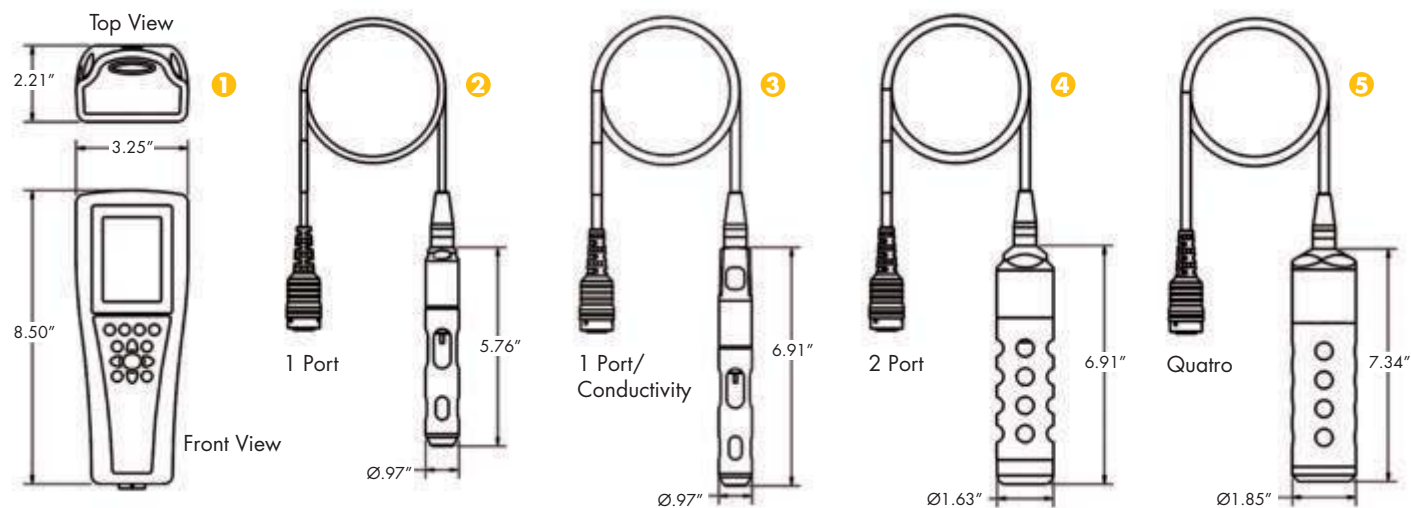
A cable management kit is included with all cables 4-meters and over. Conveniently, manage your longer cable lengths. Also easily attaches to the outside of the soft-sided carrying case instead of placing wet, dirty cables inside.



All user-replaceable sensors feature a double o-ring creating a waterproof connection and enabling the sensors to be used at depths up to 30-meters.



A rugged, weighted probe guard protects the sensors and ensures the correct depths on longer cables.



System Specifications (Cable and Sensors)

	Sensor Type	Range	Accuracy	Resolution	Units	Calibration
Dissolved Oxygen (%) (temp comp range -5 to 45°C)	Polarographic or Galvanic	0 to 500%	0 to 200% ($\pm 2\%$ of reading or 2% air saturation, whichever is greater) 200% – 500% ($\pm 6\%$ of reading)	1% or 0.1% air saturation (user selectable)	%	1 or 2-points with zero
Dissolved Oxygen (mg/L) (temp comp range -5 to 45°C)	Polarographic or Galvanic	0 to 50 mg/L	0 to 20 mg/L ($\pm 2\%$ of the reading or 0.2 mg/L, whichever is greater) 20 to 50 mg/L ($\pm 6\%$ of the reading)	0.1 or 0.01 mg/L (user selectable); 0.1% air saturation	mg/L, ppm	1 or 2-points with zero
Temperature (Field rugged cables)		-5 to 70°C	$\pm 0.2^\circ\text{C}$	0.1°C	°C, °F, K	
Temperature (Lab-grade)*		0 to 40°C	$\pm 0.35^\circ\text{C}$	0.1°C	°C, °F, K	
Conductivity**	Four electrode cell	0 to 200 mS/cm (auto range)	$\pm 0.5\%$ of reading or 0.001 mS/cm, whichever is greater (4-m cable) $\pm 1\%$ of reading or 0.001 mS/cm, whichever is greater (20-m cable)	0.001 mS/cm to 0.1 mS/cm (range dependent)	μS , mS	1 point
Salinity	Calculated from conductivity and temperature	0 to 70 ppt	$\pm 1.0\%$ of reading or 0.1 ppt, whichever is greater	0.01 ppt	ppt, PSU	1 point
pH	Glass Combination Electrode	0 to 14 units	± 0.2 units	0.01 units	mV, pH units	1, 2, 3, 4, 5, or 6 point (user selectable); US, NIST or Custom Buffers
ORP	Platinum button	-1999 to +1999 mV	± 20 mV in redox standards	0.1 mV	mV	1 point
Ammonium*** (ammonia with pH sensor)	Ion Selective Electrode	0 to 200 mg/L-N, 0 to 30°C	$\pm 10\%$ of reading or 2 mg/L-N, whichever is greater	0.1 mg/L	mg/L-N, mV	1, 2, or 3 point (user selectable)
Nitrate***	Ion Selective Electrode	0 to 200 mg/L-N, 0 to 30°C	$\pm 10\%$ of reading or 2 mg/L-N, whichever is greater	0.1 mg/L	mg/L-N, mV	1, 2, or 3 point (user selectable)
Chloride***	Ion Selective Electrode	0 to 1000 mg/L, 0 to 40°C	$\pm 15\%$ of reading or 5 mg/L, whichever is greater	0.1 mg/L	mg/L-Cl-, mV	1, 2, or 3 point (user selectable)
Total Dissolved Solids (TDS)	Calculated from conductivity and temperature	0 to 100 g/L TDS constant range 0.30 to 1.00 (0.64 default)		0.001, 0.01, 0.1g/L	kg/L, g/L	
Barometer	Piezoresistive	375 to 825 mmHg	± 1.5 mmHg from 0 to 50°C	0.1 mmHg	mmHg, inHg, mbar, psi, kPa, ATM	1 point

Instrument Only Specifications (at Ambient Temperature)

pH		-2.60 to 16.60	± 0.1 mV (0.01 pH units)	0.1 mV (0.01 pH units)		
ORP		-1999 to +1999 mV	± 0.5 mV	0.1 mV		
Conductivity		0.0 to 200 mS/cm each range	$\pm 0.1\%$ FS ± 1 digit for $\mu\text{S}/\text{cm}$ to 0.1 mS/cm (range dependent)	0.0001 mS/cm or 0.1		
Dissolved Oxygen		0.00 to 90 mg/L; 0 to 550%	$\pm 0.2\%$ FS (550% air saturation) ± 1 digit (with 1.25 PE membrane at 10°C)	0.01 mg/L; 0.1% air saturation		
Temperature		-10 to 100.00°C	$\pm 0.2\%$ FS ± 1 digit	0.1°C	°C, °F, K	

* Lab-grade cables include 605107, -108, -109, 605177, -178, -179

** Derived parameters can include resistivity, salinity, specific conductance, and total dissolved solids

*** ISE sensors for freshwater only; 17-meter maximum depth