

Water Quality Meters

YSI Professional Series

YSI introduces the Professional Series instruments. The easiest, most versatile handheld solution for spot sampling in the field or lab. Simply choose the Pro Series model, cable length, and probes that are right for your specific application – from aquaculture to surface water to wastewater and more.

FEATURES

- Each instrument provides multiple probe or cable options.
- Detachable cables and probes mean less downtime.
- Backlit keypad and display (Pro Plus) or glow-in-the-dark keypad for low light measurements.
- IP67 rated.
- 3-Year warranty on instrument.
2-Year warranty on cables.
1-Year warranty on probes.
6-Month warranty on Galvanic DO probes.

Professional Plus Multiparameter

The flagship of the Professional Series, YSI Professional Plus accommodates any combination of Pro Series probe, cable, and accessory. This compact handheld allows you to instantly change probes and cables. You determine what you want the instrument to measure and display.

Choose your own combination of the various parameters:

- Ammonium, Chloride, Conductivity, Dissolved Oxygen (DO), Nitrate, Oxidation Reduction Potential (ORP), pH, Temperature, Salinity, Resistivity, Total Dissolved Solids (TDS)
- 5,000 data-set memory
- Interval or single-event logging
- Free, Data Manager desktop software and ProComm II saddle



Pro1020

pH, ORP, ORP/Redox, Polarographic or Galvanic DO sensors, and Temperature.



Pro1030

pH, ORP/Redox, Conductivity, Specific Conductance, Salinity, Total Dissolved Solids (TDS), and Temperature.



Pro2030

DO, Conductivity, Specific Conductance, Salinity, Total Dissolved Solids (TDS), Barometer and Temperature.



Pro10

pH or ORP/Redox, and Temperature



Pro20

DO and Temperature



Pro30

Conductivity, Specific Conductance, Salinity, Total Dissolved Solids (TDS), and Temperature.

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242

email: sales@geotechenv.com website: www.geotechenv.com

YSI Professional Series

ORDER SELECTION GUIDE

As easy as 1, 2, 3

STEP 1 – SELECT INSTRUMENT

Professional Plus
Pro10 pH or ORP
Pro20 DO
Pro30
Pro1020 ISE/DO
Pro1030 ISE/Conductivity
Pro2030 DO/Conductivity

STEP 2 – SELECT CABLE¹

(All cables include temperature)

1 m cable for ISE¹
4 m cable for ISE¹
10 m cable for ISE¹
20 m cable for ISE¹
30 m cable for ISE¹
1 m cable for DO²
4 m cable for DO²
10 m cable for DO²
20 m cable for DO²
30 m cable for DO²
1 m cable for conductivity⁵
4 m cable for conductivity⁵
10 m cable for conductivity⁵
20 m cable for conductivity⁵
30 m cable for conductivity⁵
1 m cable for ISE/ISE
4 m cable for ISE/ISE
10 m cable for ISE/ISE
20 m cable for ISE/ISE
30 m cable for ISE/ISE
1 m cable for ISE/DO
4 m cable for ISE/DO
10 m cable for ISE/DO
20 m cable for ISE/DO
30 m cable for ISE/DO
1 m cable for ISE/conductivity⁵
4 m cable for ISE/conductivity⁵
10 m cable for ISE/conductivity⁵
20 m cable for ISE/conductivity⁵
30 m cable for ISE/conductivity⁵
1 m cable for DO/conductivity⁵
4 m cable for DO/conductivity⁵
10 m cable for DO/conductivity⁵
20 m cable for DO/conductivity⁵
30 m cable for DO/conductivity⁵
1 m cable with 4 ports⁵
4 m cable with 4 ports⁵
10 m cable with 4 ports⁵
20 m cable with 4 ports⁵
30 m cable with 4 ports⁵

STEP 3 – SELECT PROBE¹

Galvanic DO
Polarographic DO
pH (ISE)
ORP (ISE)
pH/ORP combination (ISE)³
Amplified pH (ISE)
Amplified pH/ORP (ISE)
Ammonium (ISE)
Chloride (ISE)
Nitrate (ISE)
BOD probe (self stirring)

¹ ISEs include pH, ORP, Ammonium, Nitrate, Chloride.

² Special order cables in 10-meter increments up to 100 meters available.

³ Not compatible with ISE/ISE cables.

⁴ Extension adapter may be required

⁵ Conductivity probe included with cable



Flow Cell with spike



Pro Series
single or dual
Flow Cell assembly



Quatro 6850
Flow Cell assembly

YSI LAB DOCK

The Lab Dock is designed to hold a Pro Series instrument and BOD bottle, with BOD probe, together on the bench-top to provide a small footprint. It can also be used without the BOD bottle holder as a convenient instrument dock.

The Lab Dock is ideal for the Professional Plus or Pro20 instrument with a BOD probe. The dock conveniently holds the BOD bottle on either the left or right side in order to provide a stable calibration environment and to store the probe. The instrument sets easily on the Lab Dock and won't wobble, even when pressing the instrument's keys.



4-Port
Bulkhead
with four user
replaceable
sensors
2 ISE,
1 Cond / Temp,
1 DO

Water Quality Meters



YSI Professional Series Specifications

SYSTEM WITH INSTRUMENT, 1-4 METER CABLE, AND PROBES

		Professional Plus	Pro10	Pro20	Pro30	Pro1020	Pro1030	Pro2030
Dissolved Oxygen (% saturation)	Sensor Type	Polarographic or Galvanic		Polarographic or Galvanic		Polarographic or Galvanic		Polarographic or Galvanic
	Range	0 to 500%		0 to 500%		0 to 500% air saturation		0 to 500% air saturation
	Accuracy	0 to 200% air saturation (±2% of reading or ±2% air saturation, whichever is greater) 200 to 500% (±6% of reading)		0 to 200% air saturation, (±2% of reading or ±2% air saturation, whichever is greater) 200 to 500% (±6% of reading)		0 to 200% air saturation, (±2% of reading or ±2% air saturation, whichever is greater) 200 to 500% (±6% of reading)		0 to 200% air saturation, (±2% of reading or ±2% air saturation, whichever is greater) 200 to 500% (±6% of reading)
	Resolution	1% or 0.1% air saturation (user selectable)		0.1% or 1% air saturation (user selectable)		0.1% or 1% air saturation (user selectable)		0.1% or 1% air saturation (user selectable)
Dissolved Oxygen (mg/L)	Sensor Type	Polarographic or Galvanic		Polarographic or Galvanic		Polarographic or Galvanic		Polarographic or Galvanic
	Range	0 to 50 mg/L		0 to 50 mg/L		0 to 50 mg/L		0 to 50 mg/L
	Accuracy	0 to 20 mg/L (±2% of reading or 0.2 mg/L, whichever is greater) 20 to 50 mg/L (±6% of reading)		0 to 20 mg/L (±2% of reading or ±0.2 mg/L, whichever is greater) 20 to 50 mg/L (±6% of reading)		0 to 20 mg/L (±2% of reading or ±0.2 mg/L, whichever is greater) 20 to 50 mg/L (±6% of reading)		0 to 20 mg/L (±2% of reading or ±0.2 mg/L, whichever is greater) 20 to 50 mg/L (±6% of reading)
	Resolution	0.1 or 0.01 mg/L (user selectable) 0.1% air saturation		0.01 or 0.1 mg/L (user selectable)		0.01 or 0.1 mg/L (user selectable)		0.01 or 0.1 mg/L (user selectable)
Temperature (Field Cables)	Range	-5 to 70°C	-5 to 55°C	-5 to 55°C	-5 to 55°C (compensation range for mg/L)	-5 to 55°C (0 to 45°C for DO)	-5 to 55°C (compensation range for mg/L)	-5 to 55°C (0 to 45°C for DO)
	Accuracy	±0.2°C	±0.2°C	±0.3°C	±0.2°C	±0.2°C	±0.2°C	±0.3°C
	Resolution		0.1°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Conductivity*	Sensor Type	4-electrode cell		4-electrode cell		4-electrode cell		4-electrode cell
	Range	0 to 200 mS/cm (auto range)		0 to 200 mS/cm (auto range)		0 to 200 mS/cm (auto range)	0 to 500 µS/cm, 0 to 200 mS/cm (auto ranging)	0 to 200 mS/cm (auto range)
	Accuracy	±0.5% of reading or 0.001 mS/cm, whichever is greater		±0.5% of reading or 1.0 µS/cm, whichever is greater		±1.0% of reading or 1 µS/cm whichever is greater	±1.0% of reading or 1 µS/cm whichever is greater	±1.0% of reading or 1 µS/cm whichever is greater
	Resolution	0.001 mS (0 to 500 mS); 0.01 mS (0.501 to 50.00 mS); 0.1 mS (50.01 to 200 mS)		0.0001 to 0.1 mS/cm (range dependent)		0.0001 to 0.1 mS/cm (range dependent)	0.0001 to 0.1 mS/cm, 0.1 to 0 µS/cm (range dependent)	0.0001 to 0.1 mS/cm (range dependent)
Salinity	Sensor Type	Calculated from conductivity and temperature					Calculated from conductivity and temperature	Calculated from conductivity and temperature
	Range	0 to 70 ppt					0 to 70 ppt	0 to 70 ppt
	Accuracy	±1.0% of reading or 0.1 ppt, whichever is greater					±1.0% of reading or ±0.1 ppt, whichever is greater	±1.0% of reading or 0.1 ppt, whichever is greater
	Resolution	0.01 ppt					0.1 ppt	0.1 ppt
pH	Sensor Type	Glass combination electrode	Glass combination electrode			Glass combination electrode	Glass combination electrode	
	Range	0 to 14 pH units	0 to 14 pH units			0 to 14 pH units	0 to 14 pH units	
	Accuracy	±0.2 units	±0.2			±0.2	±0.2	
	Resolution	0.01 units	0.01			0.01	0.01	
ORP	Sensor Type	Platinum button	Platinum button			Platinum button	Platinum button	
	Range	-1999 to +1999 mV	-1500 to 1500 mV			-1500 to 1500 mV	-1500 to 1500 mV	
	Accuracy	±20 mV (in redux standards)	±20 mV			±20 mV	±20 mV	
	Resolution	0.1 mV	1 mV			1 mV	1 mV	
Ammonium**	Range	0 to 200 mg/L-N, 0 to 30°C						
	Accuracy	±10% of reading or 2 mg/L-N, whichever is greater						
	Resolution	0.01 mg/L						
Nitrate**	Sensor Type	Ion Selective Electrode						
	Range	0 to 200 mg/L-N, 0 to 30°C						
	Accuracy	±10% of reading or 2 mg/L-N, whichever is greater						
	Resolution	0.01 mg/L						
Chloride**	Sensor Type	Ion Selective Electrode						
	Range	0 to 1000 mg/L, 0 to 40°C						
	Accuracy	±15% of reading or 5 mg/L, whichever is greater						
	Resolution	0.01 mg/L						
Total Dissolved Solids (TDS)	Sensor Type	Calculated from conductivity and temperature			Calculated from conductivity and temperature		Calculated from conductivity and temperature	Calculated from conductivity and temperature
	Range	0 to 100 g/L (TDS constant range) 0.30 to 1.00 g/L (0.64 default)			0 to 100 g/L (TDS constant range) 0.30 to 1.00 g/L (0.64 default)		0 to 100 g/L (TDS constant range) 0.30 to 1.00 g/L (0.65 default)	0 to 100 g/L (TDS constant range) 0.30 to 1.00 g/L (0.65 default)
	Accuracy				Dependent accuracy of temp, conductivity and TDS constant		Dependent accuracy of temp, conductivity and TDS constant	Dependent on temp and cond., calculated from those parameters
	Resolution	0.001, 0.01, 0.1 g/L (range dependent)			0.001, 0.01, 0.1 g/L (range dependent)		0.0001 to 0.1 g/L (range dependent)	0.0001, 0.01, 0.1 g/L
Barometer	Sensor Type	Piezoresistive		Piezoresistive		Piezoresistive		Piezoresistive
	Range	375 to 825 mmHg		400 to 999.9 mmHg		500 to 800 mmHg		500 to 800 mmHg
	Accuracy	±1.5 mmHg from 0 to 50°C		±5 mmHg within ±5°C temp. range from calibration point		±5 mm Hg within ±15°C of calibration temperature		±5 mm Hg within ±15°C of calibration temperature
	Resolution	0.1 mmHg		0.1 mmHg		0.1 mmHg		0.1 mmHg

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

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