

# 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 CABLE<sup>1</sup>

(All cables include temperature)

1 m cable for ISE<sup>1</sup>  
4 m cable for ISE<sup>1</sup>  
10 m cable for ISE<sup>1</sup>  
20 m cable for ISE<sup>1</sup>  
30 m cable for ISE<sup>1</sup>  
1 m cable for DO<sup>2</sup>  
4 m cable for DO<sup>2</sup>  
10 m cable for DO<sup>2</sup>  
20 m cable for DO<sup>2</sup>  
30 m cable for DO<sup>2</sup>  
1 m cable for conductivity<sup>5</sup>  
4 m cable for conductivity<sup>5</sup>  
10 m cable for conductivity<sup>5</sup>  
20 m cable for conductivity<sup>5</sup>  
30 m cable for conductivity<sup>5</sup>  
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/conductivity<sup>5</sup>  
4 m cable for ISE/conductivity<sup>5</sup>  
10 m cable for ISE/conductivity<sup>5</sup>  
20 m cable for ISE/conductivity<sup>5</sup>  
30 m cable for ISE/conductivity<sup>5</sup>  
1 m cable for DO/conductivity<sup>5</sup>  
4 m cable for DO/conductivity<sup>5</sup>  
10 m cable for DO/conductivity<sup>5</sup>  
20 m cable for DO/conductivity<sup>5</sup>  
30 m cable for DO/conductivity<sup>5</sup>  
1 m cable with 4 ports<sup>5</sup>  
4 m cable with 4 ports<sup>5</sup>  
10 m cable with 4 ports<sup>5</sup>  
20 m cable with 4 ports<sup>5</sup>  
30 m cable with 4 ports<sup>5</sup>

#### STEP 3 – SELECT PROBE<sup>1</sup>

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

<sup>1</sup> ISEs include pH, ORP, Ammonium, Nitrate, Chloride.

<sup>2</sup> Special order cables in 10-meter increments up to 100 meters available.

<sup>3</sup> Not compatible with ISE/ISE cables.

<sup>4</sup> Extension adapter may be required

<sup>5</sup> 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
<b>Dissolved Oxygen</b> (% 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)
<b>Dissolved Oxygen</b> (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)
<b>Temperature</b> (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
<b>Conductivity*</b>	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 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
	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, 0.1 to 0 µS/cm (range dependent)		0.0001 to 0.1 mS/cm (range dependent)
<b>Salinity</b>	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 70 ppt		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		±1.0% of reading or 0.1 ppt, whichever is greater
	Resolution	0.01 ppt		0.01 ppt		0.1 ppt		0.1 ppt
<b>pH</b>	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	
<b>ORP</b>	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	
<b>Ammonium**</b>	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						
<b>Nitrate**</b>	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						
<b>Chloride**</b>	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						
<b>Total Dissolved Solids (TDS)</b>	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
<b>Barometer</b>	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.