

# Instrumentation

## Electronic thermometers

**Checktemp** is a digital thermometer with stainless steel penetration probe. It delivers high accuracy temperature measurements over a wide temperature range without worrying about breakage or condensation. Accuracy of  $\pm 0.2^{\circ}\text{C}$  ( $\pm 0.5^{\circ}\text{F}$ ).

**Checktemp1 (C/F)** is a compact, accurate and low-cost thermometer, with stainless steel probe on a 1 meter cable. Available in  $^{\circ}\text{C}$  and  $^{\circ}\text{F}$  versions.

**Checktemp4 (C/F)** is compact and lightweight, you can carry it wherever you go. You can pull-down the probe. Available in  $^{\circ}\text{C}$  and  $^{\circ}\text{F}$  versions.

**HI-145 series** thermometers have been developed for HACCP programs and offer high standards of performance together with maximum simplicity-of-use. They are equipped with a 5 inch long (125mm) AISI 316 stainless steel probe. The sharp conical tip provides fast response and improved accuracy over the entire range. Battery life: 10 000 hours of continuous use.

**Checkfridge (C/F)** is the ideal thermometer when you need accurate, reliable internal fridge temperature readings while monitoring from outside. Available in  $^{\circ}\text{C}$  and  $^{\circ}\text{F}$  versions.

**HI-98517 series** includes 3 types of probes: the general probe (**HI-98517-13**), liquid probe (**HI-98517-15/30**) and the surface probe made for machine shops, molding facilities and welding surfaces (**HI-98517-12**).



ITEM	RANGE	RESOLUTION	ACCURACY	DIMENSIONS	PROBE	PRICE
HI-98501	-50° to 150°C	0.1°C	$\pm 0.2^{\circ}\text{C} / \pm 0.3^{\circ}\text{C}$ out.	70 x 50 x 22 mm	106 x 4 mm	55.00 \$
HI-98509*	-50° to 150°C	0.1°C	$\pm 0.3^{\circ}\text{C} / \pm 0.5^{\circ}\text{C}$ out.	107 x 59 x 17 mm	97 x 4 mm	55.00 \$
HI-98517-12	-40° to 500°C	1°C	$\pm 2^{\circ}\text{C}$	175 x 41 x 23 mm	170 x 3 mm	73.00 \$
HI-98517-13	-40° to 550°C	1°C	$\pm 2^{\circ}\text{C}$	175 x 41 x 23 mm	130 x 3 mm	73.00 \$
HI-98517-15	-40° to 550°C	1°C	$\pm 2^{\circ}\text{C}$	175 x 41 x 23 mm	170 x 3 mm	73.00 \$
HI-98517-30	-40° to 550°C	1°C	$\pm 2^{\circ}\text{C}$	175 x 41 x 23 mm	320 x 3 mm	73.00 \$
HI-145-00	-50° to 220°C	0.1°C (-50.0 to 199.9°C); 1°C (200 to 220°C)	$\pm 0.3^{\circ}\text{C}$	92 x 165 x 38 mm	125 x 5 mm	68.00 \$
HI-145-01	-58° to 428°F	0.1°F (58.0 to 199.9°F); 1°F (200 to 428°F)	$\pm 0.6^{\circ}\text{F}$	92 x 165 x 38 mm	125 x 5 mm	68.00 \$
HI-145-20	-50° to 220°C	0.1°C (-50.0 to 199.9°C); 1°C (200 to 220°C)	$\pm 0.3^{\circ}\text{C}$	92 x 340 x 38 mm	300 x 5 mm	87.00 \$
HI-145-30	-58° to 428°F	0.1°F (58.0 to 199.9°F); 1°F (200 to 428°F)	$\pm 0.6^{\circ}\text{F}$	92 x 340 x 38 mm	300 x 5 mm	87.00 \$
HI-147-00*	-50° to 150°C	0.1°C	$\pm 0.3^{\circ}\text{C} / \pm 0.5^{\circ}\text{C}$ out.	93 x 39 x 31 mm	40 x 5 mm	75.00 \$
HI-147-01*	-58° to 302°F	0.1°F (58.0 to 199.9°F); 1°F (200 to 302°F)	$\pm 0.6^{\circ}\text{F} / \pm 1^{\circ}\text{F}$ out.	93 x 39 x 31 mm	40 x 5 mm	75.00 \$
HI-151-00	-50° to 220°C	0.1°C (-50.0 to 199.9°C); 1°C (200 to 220°C)	$\pm 0.3^{\circ}\text{C}$	165 x 50 x 20 mm	117 x 3.5 mm	85.00 \$
HI-151-01	-58° to 428°F	0.1°F (58.0 to 199.9°F); 1°F (200 to 428°F)	$\pm 0.5^{\circ}\text{F}$	165 x 50 x 20 mm	117 x 3.5 mm	85.00 \$

(\*) 1-meter thermistor cable.

## Floating thermometer

This low-cost floating thermometer is ideal for aquariums and small tanks. Overall length is 5". Reads both  $^{\circ}\text{F}$  and  $^{\circ}\text{C}$ . Range 30° to 120°F and 0° to 50°C.



ITEM	DESCRIPTION	PRICE
PEN-TH10A	Floating thermometer for small body of water.	3.50 \$

## Min / max thermometer

An easy way to know the high and low temperatures in the water, a building, cooler unit, outside, etc. Easy reset option with the help of one single button. Accuracy of 1%. Length of 8". Range of -50° to 50°C / -40° to 120°F.



ITEM	DESCRIPTION	PRICE
8CO23	Minimum/maximum thermometer.	44.85 \$

## Wireless thermometer

Utilizing a radio wave signal, this wireless thermometer measures the temperature at remote sensors, displaying the reading in either °F or °C. The monitor can accept up to 4 different remote sensors and receive signals as far as 100' (30 meters) in optimum conditions. The remote sensors have a waterproof probe tip attached to a 36" cable. The monitor and remote sensors require 2 AAA batteries each (not included).



ITEM	DESCRIPTION	PRICE
PEN-WTP100	Wireless thermometer with sensor.	63.50 \$
PEN-WTP101	Additional sensor for thermometer.	33.58 \$

## Hanna wall-mounting thermometer

The wall mount and the stainless steel sensor makes this thermometer an ideal tool for measuring liquids, air, refrigerated food and semi-solids. Accurate and simple of use, this thermometer can be fixed on the wall, thanks to its eyelets and sensor support. Range of -50.0° to 150.0°C with an accuracy of ±0.3°C (-20° to 90°C); ±0.5°C (outside). 2-meter cable with a stainless steel sensor of 160 mm (6.3"). 150 grams weight. 1.5V AA battery included / 5-year lifetime.



ITEM	DESCRIPTION	PRICE
HI-146-00	Air and liquids T° of -50° to 150°C, max RH of 95%	128.70 \$

## Pocket thermometers

These shirt-pocket thermometers are filled with non-toxic red liquid and include an aluminum or plastic protective case, depending on the model. Measure both °F and °C range.



ITEM	RANGE	PROTECT. CASE	PRICE
ALCOOL-M	-40° - 70°C (-40° - 158°F)	Aluminum	22.99 \$
ALCOOL-P	-40° - 70°C (-40° - 158°F)	Plastic	16.20 \$

## Pocket-sized waterproof thermometers



This thermometer uses a 2.75" (70 mm) stainless steel stem to measure the temperature. The digital display shows Fahrenheit (-40° to 392°F) or Celsius (-40° to 200°C) with ±0.2°F / ±1°C accuracy and 0.1°F/C resolution.

Capable of max/min recall of high and low temperatures, each has data hold and auto shut-off. Includes one LR44 button battery and a protective cover.

ITEM	DESCRIPTION	PRICE
PEN-39240	Pocket-sized waterproof thermometer.	51.80 \$
PEN-39240C	Pocket-sized thermometer (5 per pack).	220.00 \$

## Miniature digital thermometer

This inexpensive digital thermometer measures temperature at the base unit and at a cable-connected submersible probe. Reads temperature in °C or °F and has a clock function. Cable is 30" long.



ITEM	DESCRIPTION	PRICE
PEN-DTDS1	Miniature digital thermometer.	21.58 \$

## Temperature data loggers with USB port

### EL-USB-1 model:

This data logger can achieve a daily automatic data checking and measure up to 16,382 temperature readings, between -35° and 80°C (-31° to 176°F) with an accuracy of ±1°C (±2°F). This product allows the user to customize the interface and download stock data by connecting the logger into a USB port on a computer. Easy data screening with the USB interface. Disposable internal lithium battery that has a 1-year lifetime.

### HT300 model:

Made to handle the most extreme temperatures and to be transported in narrow locations, this data logger can keep up to 32,512 different samples, at temperatures between -40° to 125°C (-40° to 257°F) with an accuracy of ±1°C (±2°F). Its time response is of 15 minutes at 63% full range.

The HT300 housing is made of 316 stainless steel, graded IP68. Conformed to HACCP and FDA standards. A PC software (A016) sold separately is necessary if you want to use this particular model.



ITEM	DESCRIPTION	PRICE
EL-USB-1	Temperature data logger, max of 16,382 readings.	114.40 \$
HT300	Temperature data logger, max of 32,512 readings.	279.50 \$
A016	PC software for HT300 data logger.	170.30 \$

## Temperature alarm

This large-display temperature alarm features an adjustable audible alarm for high and low temperatures and larger digits on a 4" x 4" x 1" meter. Accuracy of ±0.5°.

The alarm will activate for both water and room temperature settings. Submersible probe with 3' cable, suction cup and AAA battery included. One-year warranty.



ITEM	DESCRIPTION	PRICE
PEN-TH24	Temperature alarm (in °F).	62.38 \$

# Instrumentation

## Thermistor thermometers

The waterproof Thermistor Thermometers **HI-93510** are housed in a rugged waterproof casing designed for use in the field as well as laboratory. These thermometers offer a wide range of probes for measurement in gases, air, and liquids, as well as surfaces and substances that require penetration for accurate readings. Supplied with **HI-762BL** temperature probe.

**Range:** -50.0° to 150.0°C  
**Resolution:** 0.1°C  
**Accuracy:** ±0.4°C  
**Battery:** 500 hours



ITEM	DESCRIPTION	PRICE
HI-93510	Thermistor thermometer, with 1-meter cable.	247.00 \$
HI-93510N	Thermistor thermometer, backlit LCD, 1m cable.	295.00 \$
HI-762-L	Air & liquid thermistor probe, 1m cable.	99.00 \$
HI-762-A	Air & gas thermistor probe, 1m cable.	139.00 \$
HI-762-W	Replacement cable for probe, 1m cable.	97.00 \$
HI-762BL	Replacement temperature probe for air/liquid.	103.00 \$

## Digital thermometer

IP67 waterproof housing. Platinum resistor (Pt100) temperature sensor requires less temperature compensation than thermocouple units.

LED backlight °C/°F switchable, Min/Max Avg functions, battery life indicator and auto power off. Ideal for food applications.

Includes RTD temperature probe and batteries.

**Range:** -148° to 572°F (-100° to 300°C)  
**Resolution:** 0.1°F (0.1°C)  
**Accuracy:** ±0.1% / +0.8°F (+0.4°C)



ITEM	DESCRIPTION	PRICE
C-370	Digital thermometer (°C/°F).	264.60 \$

## K, J & T-type waterproof thermometers

### K-type:

The handheld waterproof thermometer **HI-935002** uses a K-type sensor together with an advanced microprocessor to deliver accurate temperature measurements with an extraordinary 1600-hour battery life. Battery level indication with low battery warning and error prevention furnishes this meter with advanced battery management functions. This unit displays current temperature along with the minimum and maximum extremes achieved during the session on a dual-level LCD. A HOLD button provides the user time to record readings. The °C/°F button instantly switches between the Celsius and Fahrenheit ranges. Select from a wide variety of interchangeable probes to meet your specific needs.

**HI-93531** series stores in memory min/max temperatures. **HI-93531N** also features a backlit LCD screen and can be calibrated at one point with a simple ice bath by pressing the CAL button. **HI-93531R** is the top of the range model, featuring RS232 output for transferring measurements (once every second) to devices provided with a RS232 input (PC or printer). Same thing for **HI-93532**, which has 2 channels. **HI-93530** can take measures between 0.1°C to 999.9°C/°F.

### K, J & T-type:

The **HI-93551** series allows temperature measurements with various thermocouple probes (K, J & T). This device is equipped with a switch to change between type K, J or T. **HI-93551N** features a backlit LCD screen and a CAL button that allows you to calibrate the meter and probe in an ice bath at 0°C. This will ensure the removal of the combined meter and probe interchange error. **HI-93542** features a RS232 output for transferring measurements (once every second) to devices with RS232 input (PC or printer).



HI-935002



HI-93532



HI-93542



HI-93531

ITEM	TYPES	RANGE	THERMOMETER RESOLUTION	ACCURACY	PRICE
HI-935002	K	-50° to 199°C / 200° to 1350°C	0.1°C (-50° to 199°C) / 1°C outside	±0.2% F.S.	195.00 \$
HI-93531	K	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	267.00 \$
HI-93531N	K	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	306.00 \$
HI-93531R	K	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	348.00 \$
HI-93532	K	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	326.00 \$
HI-93532R	K	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	395.00 \$
HI-93530	K	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	196.00 \$
HI-93530N	K	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	296.00 \$
HI-93551	K, J, T	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	286.00 \$
HI-93551N	K, J, T	-200° to 999°C	0.1°C (-200° to 999°C)	±0.5°C	328.00 \$
HI-93542	K, J, T	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C) / 1°C outside	±0.5°C	355.00 \$
HI-93552R	K, J, T	-200° to 999°C / 1000° to 1371°C	0.1°C (-149° to 999°C); 0.2°C (-200° to -150°C)	±0.5°C	416.00 \$

# Instrumentation

## Industrial thermometers (5-inch)

An economical way for plumbing, HVAC applications and others. 5" housing made of pale gray plastic that can resist any impact, glass lens and brass stem. Straight stem ("S" models) or in a 90° angle (replace the "S" by "A" at the end of the item code).



ITEM	RANGE	PRECISION	STEM	PRICE
IT500-01S	-40° to 40°C	± 2%	3½"	38.20 \$
IT500-02S	-5° to 80°C	± 2%	3½"	38.20 \$
IT500-03S	0° to 115°C	± 2%	3½"	38.20 \$
IT500-04S	0° to 150°C	± 2%	3½"	38.20 \$
IT500-05S	10° to 200°C	± 2%	3½"	38.20 \$

## Multi-angle solar digital industrial thermometers

For use in commercial, institutional and industrial buildings, as well as hospitals. Commonly used on chilled water lines, boilers, condensers, etc. 4" black reinforced thermoplastic housing. LCD display, multi-angle use. Aluminum stem with 360° adjustable angle, 3½" or 6" of length.



ITEM	RANGE	PRECISION	STEM	PRICE
ITA900-35SD	-45° to 160°C	± 1%	3½"	102.34 \$
ITA900-60SD	-45° to 160°C	± 1%	6"	112.50 \$

## Solar digital thermometers

Easy installation in applications where you need to read the surface temperature on pipes, HVAC conduits, plumbing and others. 304 stainless steel housing including front flange. 2" x 2½" dial and polycarbonate lens. Capillary outlet at the center back. To be read with a 1.4 meter-long (48") PVC cable.



ITEM	RANGE	DIAMETER	PRICE
DIT200	-50° to 150°C	2"	73.65 \$
DIT250	-50° to 150°C	2½"	79.00 \$

## Multi-angle industrial thermometers (9-inch)

For use in commercial, institutional and industrial buildings, as well as hospitals. Commonly used on chilled water lines, boilers, condensers, etc. 9" cast aluminum housing with a black epoxy finish. Aluminum stem (ITA900) with 360° adjustable angle, 3½" or 6" of length. Precision of ± 1%. Available with brass stem (ITA900BR).



ITEM	RANGE	STEM	ALUMINUM	BRASS
ITA900-3501	-40° to 40°C	3½"	57.25 \$	64.76 \$
ITA900-3502	-15° to 70°C	3½"	57.25 \$	64.76 \$
ITA900-3503	0° to 115°C	3½"	57.25 \$	64.76 \$
ITA900-3504	0° to 150°C	3½"	57.25 \$	64.76 \$
ITA900-3505	-15° to 38°C	3½"	57.25 \$	64.76 \$
ITA900-3506	10° to 200°C	3½"	57.25 \$	64.76 \$
ITA900-3507	10° to 290°C	3½"	57.25 \$	64.76 \$
ITA900-6001	-40° to 40°C	6"	84.75 \$	92.25 \$
ITA900-6002	-15° to 70°C	6"	84.75 \$	92.25 \$
ITA900-6003	0° to 115°C	6"	84.75 \$	92.25 \$
ITA900-6004	0° to 150°C	6"	84.75 \$	92.25 \$

## Wells for ITA900 & ITA900-SD multi-angle industrial thermometers

For use with 9" industrial thermometers, solar digital thermometers with 3½" and 6" stem. Made of brass, 304 or 316 stainless steel. 1¼" - 18 UNF thermometer connection and 3/4" in M/NPT process connection.



ITEM	TOTAL LENGTH	FITTING	MATERIAL	PRICE
WEL-01BR	4.40"	3/4" M/NPT	Brass	13.50 \$
WEL-01SS304	4.40"	3/4" M/NPT	SS 304	63.10 \$
WEL-01SS316	4.40"	3/4" M/NPT	SS 316	99.40 \$
WEL-02BR	6.75"	3/4" M/NPT	Brass	35.25 \$
WEL-02SS304	6.75"	3/4" M/NPT	SS 304	102.00 \$
WEL-02SS316	6.75"	3/4" M/NPT	SS 316	136.25 \$
WEL-06BR	4.25"	1/2" M/NPT	Brass	23.35 \$
WEL-06SS304	4.25"	1/2" M/NPT	SS 304	69.95 \$
WEL-07SS304	6.75"	3/4" M/NPT	SS 304	104.40 \$

# Instrumentation

## Miniature low cost data loggers

These temperature data loggers work underwater or out of the water. They allow to monitor the evolution of the temperature. They take temperature measures at regular interval which then go in the database. Keep the temperature data taken inside the pond where it is used. They are programmable and their data are downloadable with the help of a connection clamp connected to a serial adapter, which is linked to a serial port (RS232 type) on a computer. To program or download, place each contacts of the connection clamp on the opposite sides of the data logger. It is reusable and reprogrammable as long as the power level of the battery is high enough.

The multi sensors SensorRod data logger allows to take temperature measures at different depths simultaneously with 4 (by default) or 6 loggers (on demand). The standard SensorRod includes 4 type Z & L iButtons but not the cable.



	TYPE Z	TYPE G	TYPE 22L	TYPE 22T	TYPE 22E	TYPE 23
<b>Range</b>	-5° to 26°C	-40° to 85°C	-40° to 70°C	0° to 125°C	0° to 120°C	-20° to 85°C
<b>Accuracy</b>	±1°C	±1°C	±0.5°C	±1°C	±1°C	±1°C
<b>Resolution</b>	±0.125°C	±0.5°C	±0.0625°C	±0.5°C	±0.5°C	±0.5°C
<b>Memory</b>	2048	2048	4096	8192	8192	8192
<b>Interval</b>	1 to 255m	1 to 255m	1 sec./273h	1 sec./273h	1 sec./273h	1 sec./273h

ITEM	DESCRIPTION	PRICE
<b>Temperature / Humidity</b>		
IBUTTON-22E	iButton - Type 22E	175.50 \$
IBUTTON-22T	iButton - Type 22T	131.30 \$
IBUTTON-23	iButton - Type 23	175.50 \$
IBUTTON-G	iButton - Type G	46.80 \$
IBUTTON-Z	iButton - Type Z	46.80 \$
IBUTTON-22L	iButton - Type 22L	80.60 \$
AM018	TreeArchivalTag - PVC housing.	195.00 \$
IBCOD-G	iBCod - Type G	104.00 \$
IBCOD-Z	iBCod - Type Z	104.00 \$
IBCOD-22L	iBCod - Type 22L	135.20 \$
IBEE-22E	iBee - Type 22E	244.40 \$
IBEE-22T	iBee - Type 22T	192.40 \$
IBWETLAND-G	iBWetLand - Type G	83.20 \$
IBWETLAND-Z	iBWetLand - Type Z	83.20 \$
IBWETLAND-22L	iBWetLand - Type 22L	110.50 \$
SENSORROD-Z	Logger with 4 sensors type Z, w/ 7.5m cable.	536.90 \$
SENSORROD-L	Logger with 4 sensors type L, w/ 7.5m cable.	731.90 \$

<b>Acquisition tools</b>		
ER-1001	Connection clamp.	72.80 \$
DS9490R*	USB adapter for data loggers.	54.60 \$
DS1402RP8	iButton connection cable.	14.30 \$
AM020	TreeArchivalTag connector.	72.80 \$
AM021	SensorRod connector.	72.80 \$
DS9093AY	iButton holder for key rings.	2.44 \$
MOUNTS	Wall mount for iButton.	1.46 \$
SRDR	PVC driver for SensorRod.	78.00 \$
AM300	Collar wire for data loggers.	0.98 \$/m
AM320	Nickel pins for data loggers.	0.39 \$
AM330	Vinyl tagging discs for data loggers.	0.98 \$

(\* Compatible with iButton, iBCod, iBWetLand, TreeArchivalTag and SensorRod data loggers.

### iButton

Used for temperature measures out of the water. The iButton casing is made of stainless steel resistant against shocks and humidity, but not submersible unlike the other iBTags.

Available in type G, Z, 22L.



### iBCod

Submersible version of the iButton. Rugged polyurethane casing. Ideal for temperature measures in submerged conditions.

Available in type G, Z, 22L.



### iBEE

High temperature submersible version. Casing made of high temperature silicone. Ideal for sterilization procedures monitoring.

Available in type 22T and 22E.



### iBWetLand

Now you can take your favorite iButton® types Z, G or 22L anywhere and in any environment. Very resistant and waterproof, the iBWetLand lets you collect data in the harshest of conditions without the worries of rain, snow or ice damage.



### TreeArchivalTag

Tough enough for extreme conditions and precise enough for delicate plants like grape vines (viticulture applications) and fruit trees. Temperature range from -20° to 85°C, accuracy of ±0.5°C, resolution of ±0.5°C and memory value of 8192 data.



# Instrumentation

## Hach test strips

These small test strips provide a rapid means of checking water quality. Simply dip a strip into the sample, wait for color to develop and compare the final color on the reagent pad to the color chart on the bottle.



97027-086



ITEM	PARAMETER	READING	RANGE (ppm)	STRIPS / VIAL	PRICE
H-27448	Alkalinity	0 - 240 ppm	0, 40, 80, 120, 180, 240	50	31.04 \$
H-27553	Ammonia	0 - 6 ppm	0, 0.25, 0.5, 1, 3, 6	25	57.80 \$
H-27450	Chlorine (free & total)	0 - 10 ppm	0, 0.5, 1, 2, 4, 10	25	53.97 \$
H-27451	Copper (total)	0 - 3 ppm	0, 0.2, 0.5, 1, 3	50	59.01 \$
H-27452	Hardness	0 - 425 ppm	0, 25, 50, 120, 250, 425	50	30.45 \$
H-27453	Iron (total)	0 - 5 ppm	0, 0.15, 0.3, 0.6, 1, 2, 5	25	59.01 \$
H-27454	Nitrate / Nitrite	0-50 / 0-3 ppm	0, 1, 2, 5, 10, 20, 50	25	53.23 \$
H-27456	pH	4 - 9 pH	4, 5, 6, 7, 8, 9	50	30.45 \$
97027-086*	pH	0 - 14 pH	scale of 1	100	97.30 \$
H-27571	Phosphate	0 - 50 ppm	0, 5, 15, 30, 50	50	55.89 \$



(\*) This product is not part of the HACH series.

## LaMotte test strips

These test strips are made for water quality analysis. Individual pads on a polystyrene strip. The vial has a molded desiccant liner that protects the strips from moisture intrusion and eliminates loose desiccant bags.



ITEM	PARAMETER	READING	RANGE (ppm)	STRIPS / VIAL QTY	PRICE
LM-2999LR	Chlorine dioxide (Low)	0 - 10 ppm	0, 0.25, 0.5, 1, 3, 10	50	15.98 \$
LM-3002	Chlorine dioxide	0 - 500 ppm	0, 10, 25, 50, 100, 250, 500	50	15.98 \$
LM-3031	Chlorine free (High)	0 - 800 ppm	0, 50, 100, 250, 500, 800	50	27.34 \$
LM-2963LR-G	Chlorine total (Low)	0 - 10 ppm	0, 0.25, 0.5, 1, 3, 10	25	9.42 \$
LM-4250BJ	Chlorine total	10 - 200 ppm	10, 50, 100, 200	200	9.58 \$
LM-2984LR	Hydrogene peroxide (Low)	0 - 50 ppm	0, 1, 3, 10, 30, 50	25	15.98 \$
LM-2948BJ	Iodine	12 - 100 ppm	12, 25, 50, 100	200	9.58 \$
LM-2951	Quaternary ammonium (QAC)	50 - 400 ppm	50, 100, 200, 400	100	9.26 \$

## Pocket salinity tester

This low-range tester is specifically designed to measure those difficult low-salt concentrations in koi ponds.

Easy calibration trimmer is isolated inside the battery compartment to prevent accidental tampering. Long-life sensor element is not replaceable. Includes protective case and four 1.5-volt batteries.

Calibration solutions sold separately. Six-month warranty.

**Range:** 0 - 10.00 ppt  
**Resolution:** 0.1 ppt  
**Accuracy:** ± 1% FS



ITEM	DESCRIPTION	PRICE
WD-35661-52	Pocket salinity tester (economical).	115.98 \$

## Refractometers

If you are looking for a fast and easy way of reading salinity, don't look any further. The **SR-6** refractometer is the number one choice for your salinity applications. Manufactured in aluminum with rubber handle. Temperature compensation between 10° and 30°C. Despite its remarkably low price, it is among the best refractometer for salinity reading you can find on the market. Dimensions: 1½"ø x 7" length (4 x 18 cm), weight of 10 oz (285 g).

One-year warranty. Its economical twin, the **SR-5**, includes an automatic correction of temperature from 10° to 30°C (50° to 86°F), a dual scale reading between 0 to 100 ppt and specific gravity from 1.000 to 1.070. Each refractometer is tested before purchase to ensure an accurate instrument, despite its low price. Six-month warranty. The **MT010ATC** is also available for your salinity applications. Different compared to the other models, the Brix refractometer indicates the percentage of soluble solids content (total solids) of a sample (water solution). Soluble solids content is the total of all the solids dissolved in the water (sugar, salts, protein, acids, etc), and the measurement reading value is the value of the sum total of these solids.



SR-6



SR-5

ITEM	PARAM.	RANGE	ACCURACY	PRICE
SR-5	Salinity	0 - 100 ppt	± 1.0 ppt	75.50 \$
	Specif. gravity	1.0/1.07 sp. gr.	± 0.005	
SR-6	Salinity	0 - 100 ppt	± 1.0 ppt	227.66 \$
	Specif. gravity	1.0/1.07 sp. gr.	± 0.005	
MT010ATC	Brix / ATC	0 to 10%	± 0.1%	207.00 \$

# Instrumentation

## HANNA water test kits

All Hanna chemical test kits use color coded dropper bottles which are easy to recognize during analysis. The dropper bottles make titration extremely easy and fast without compromising accuracy. Plastic beakers are provided with a ported cap to prevent spills and waste.

Economical and precise, these kits provide you with unsurpassed ease of use without any loss of resolution and accuracy.

To determine the concentration of the analysis, these kits use a titration technique which consists of counting the number of drops of titrant necessary to cause a color change in the sample. The end point can be determined with enhanced accuracy and simplicity.



ITEM	DESCRIPTION	RANGE	TESTS	PRICE
HI-3820	Acidity	0 - 500 mg/L	110	76.00 \$
HI-3811	Alkalinity	0 - 300 mg/L	110	74.00 \$
HI-3824	Ammonia salt water	0 - 2.5 mg/L	25	62.00 \$
HI-3826	Ammonia fresh water	0 - 2.5 mg/L	25	67.00 \$
HI-3850	Ascorbic acid	10 - 200 ppm	100	109.00 \$
HI-38074	Boron	0 - 5.0 mg/L	100	156.00 \$
HI-3830	Bromine	0 - 3.0 mg/L	60	64.00 \$
HI-3818	Carbon dioxide	0 - 100 mg/L	110	51.00 \$
HI-3815	Chloride	0 - 1000 mg/L	110	79.00 \$
HI-3831F	Free chlorine	0 - 2.5 mg/L	50	45.00 \$
HI-3875	Free chlorine (medium)	0 - 3.5 mg/L	100	92.00 \$
HI-3831T	Total chlorine	0 - 2.5 mg/L	50	41.00 \$
HI-3847	Copper	0 - 2.5 ppm	100	142.00 \$
HI-3810	Dissolved oxygen	0 - 10 mg/L	110	99.00 \$
HI-3838	Formaldehyde	0 - 10 %	110	113.00 \$
HI-3859	Glycol	Pres./Abs.	25	162.00 \$
HI-3812	Hardness	0 - 300 mg/L	100	55.00 \$
HI-3844	Hydrogene peroxyde	0 - 10 mg/L	100	105.00 \$
HI-3843	Hypochlorite	50 - 150 g/L	100	124.00 \$
HI-38039	Iron (low)	0 - 1.0 mg/L	100	127.00 \$
HI-38040	Iron (medium)	0 - 5.0 mg/L	100	114.00 \$
HI-38041	Iron (high)	0 - 10 mg/L	100	112.00 \$
HI-3874	Nitrate	0 - 2.5 mg/L	50	67.00 \$
HI-3873	Nitrite	0 - 1.0 mg/L	100	67.00 \$
HI-38054	Ozone	0 - 2.3 mg/L	100	127.00 \$
HI-3864	Phenol	0 - 1.0 mg/L	100	189.00 \$
HI-3833	Phosphate	0 - 5.0 ppm	50	41.00 \$
HI-3835	Salinity	0 - 40 g/kg	110	103.00 \$
HI-38000	Sulfate	30 - 100 mg/L	100	118.00 \$
HI-3822	Sodium sulfite	0 - 20 mg/L	110	128.00 \$
HI-3854	Zinc	0 - 3.0 mg/L	100	92.00 \$
HI-3814	Environmental test kit	6 tests	100+	340.00 \$
HI-3823	Aquaculture test kit	6 tests	100+ ts	433.00 \$

NOTE: All replacement kits are available at AQUAMERIK, your product provider.

## LaMotte water monitoring kits

LaMotte Chemical conceives several varieties of sets of water analysis. The overall range of analysis is based on simplicity and the precision. The quality control of water is essential and it will ensure you a success in your operations of fish farming production. AQUAMERIK proposes a multitude of parameters which will be largely useful for you.



### AQ-2PRO (fresh water):

Nitrite, pH, alkalinity, carbon dioxide, chlorine, dissolved oxygen, hardness and temperature.

### AQ-4PRO (salt water):

Nitrate, nitrite, pH, alkalinity, carbon dioxide, dissolved oxygen, salinity and temperature.



ITEM	DESCRIPTION	PRICE
AQ-2PRO	LaMotte water monitoring kit - fresh water.	383.98 \$
LMAQ2RP	Reagents for AQ-2PRO.	234.06 \$
AQ-4PRO	LaMotte water monitoring kit - salt water.	478.38 \$
LMAQ4RP	Reagents for AQ-4PRO.	253.90 \$

## LaMotte water test kits



ITEM	DESCRIPTION (# of tests)	RANGE x ACCU. PPM (mg/L)	PRICE
4491-DR	Alkalinity (50)	0 - 200 x 4.0	56.94 \$
3304-02	Ammonia (50)	0 - 2.0 x 0.2	130.18 \$
7297-DR	Carbon dioxide (50)	0 - 50 x 1.0	63.02 \$
4503	Chloride (50)	0 - 200 x 4.0	74.06 \$
3312	Chlorine (50)	0.2 - 3.0 x 0.2	106.54 \$
6616	Copper - total (50)	0 - 0.5 x 0.05	143.98 \$
5860	Dissolved oxygen	0 - 10 x 0.2	83.18 \$
4482-DR	Hardness - total (50)	0 - 200 x 4.0	71.34 \$
7787	Iron (50)	0.05 - 1.0 x 0.1	157.26 \$
3354	Nitrate (50)	0.25 - 10 x 0.1	90.38 \$
3352	Nitrite (50)	0.05 - 0.8 x 0.1	132.94 \$
3353	pH (50)	5.0 - 10 pH x 0.5	78.22 \$
2159-01	pH (100)	7.7 - 8.4 pH x 0.1	101.58 \$
3121-02	Phosphate (50)	0 - 2.0 x 0.2	142.38 \$
7459	Salinity (50)	0 - 20 ppt x 0.4	99.66 \$
3322	Sulfide (50)	0.2 - 20 x 0.3 - 5.0	93.58 \$

# Instrumentation

## HACH test kits

The importance of a precise analysis in aquaculture is of primary importance. That is why AQUAMERIK proposes to you various analysis kits of quality. All HACH products ensure you remarkable precision and fast reading. HACH carrying cases all have these qualities in common: portable, robust, reliable, easy, practical and fast. AQUAMERIK took care to propose to you some analysis kits necessary in aquaculture. If a specific casing is not registered in the table, do not hesitate to communicate with us, we will be pleased to give you a price quite as competitive as those appearing in the list below.

ITEM	DESCRIPTION	MODEL NUMBER	RANGE (mg/l)	SENSITIVITY (mg/l)	PRICE
2223-01	Acidity	AC-6	5 - 400	5 - 20	123.59 \$
24443-01	Alkalinity	AL-AP	20 - 400	2.0	108.72 \$
224100	Ammonia (fresh water)	NI-8	0 - 3.0	0.1	209.44 \$
2428700-CA	Ammonia (fresh & salt)	NI-SA	0 - 2.4	0.2	223.30 \$
1436-01	Carbon dioxide	CA-23	1.25 - 100	1.25 - 5.0	100.34 \$
14542-00	Chlorine (free & total)	CN-70	0 - 3.5	0.02 - 0.1	179.36 \$
21941-00	Copper (free & total)	CU-6	0.1 - 4.0	0.1	173.92 \$
1469-00	Dissolved oxygen	OX-2P	0.2 - 20	0.2 - 1.0	189.08 \$
1453-00	Hardness	5-B	1 - 30 gpg	1.0 gpg	43.67 \$
1465-00	Iron (low)	IR-18A	0.02 - 1.0	0.02	168.97 \$
1464-01	Iron (high)	IR-18B	0.25 - 7.0	0.2	137.06 \$
1467-00	Manganese	MN-5	0 - 3.0	0.1	333.31 \$
14161-00	Nitrate	NI-14	0 - 10	0.02 - 0.2	195.91 \$
21820-00	Nitrite	NI-15	0 - 0.5	0.01	193.34 \$
1470-11	pH	17N	4 - 10 pH	0.5 pH	178.77 \$
24836-00	Phenol	PL-1	0 - 4.0	0.2	320.09 \$
2249-02	Phosphate	PO-23	0.1 - 4.0	0.1	313.46 \$

**NOTE: All replacement kits are available at AQUAMERIK, your product provider.**

### FF-1A MODEL

An economical model with 9 different parameters for the quality of water. In this casing, you will find all reagents and accessories required for drop-count method titration or colorimetric tests with color discs.

\* Drop-count method for titration tests, color discs for colorimetric tests.

### FF-2 MODEL

Analysis kit made for professionals, this model enables to measure 10 important water quality parameters by titration with the easy-to-read digital titrator and colorimetrically with the color discs. Dissolved oxygen samples are available in option.

\* Digital titrator for titration tests, color discs for colorimetric tests.

### FF-3 MODEL

The FF-3 test kit model is specifically designed for saltwater applications. Each kit has the necessary equipment and reagents for analyzing the 10 most important water quality parameters (see tab on the right). The saltwater test kit uses a digital titrator, color discs for colorimetric tests and includes detailed instructions.

\* Digital titrator for titration tests, color discs for colorimetric tests.

ITEM	DESCRIPTION	PRICE
FF-1A	Aquaculture test kit (basic model).	546.06 \$
FF-2	Aquaculture test kit (professional model).	987.98 \$
FF-3	Saltwater test kit (professional model).	1 054.06 \$



24443-01



14542-00



1464-01



#### PARAMETERS:

Alkalinity  
Ammonia  
Carbon dioxide  
Chlorine  
Dissolved oxygen  
Hardness  
Nitrite  
pH  
Temperature



#### PARAMETERS:

Acidity  
Alkalinity  
Ammonia  
Carbon dioxide  
Chlorine  
Dissolved oxygen  
Hardness  
Nitrite  
pH  
Temperature



#### PARAMETERS:

Acidity  
Alkalinity  
Ammonia  
Carbon dioxide  
Chlorine  
Dissolved oxygen  
Hardness  
Nitrite  
pH  
Temperature



# Instrumentation

## Portable single parameter photometers

Hanna Instruments developed an analyzer of water with portable microprocessor which can measure various essential parameters with a good quality of water. This apparatus uses technology of the microprocessor to determine quickly and with precision the concentration of these parameters in water. An excellent alternative to the sets of chemical analyses. The internal microprocessor ensures a fast answer and a precise reading worthy of a laboratory. The chemicals contain 25 tests maximum (except where indicated). 9-volts battery included. Solutions sold separately.



(\*) HI-729-26: 20 tests  
 (\*) HI-733-25: 24 tests  
 (\*) HI-739-26: 30 tests  
 (\*) HI-706-25: 40 tests  
 (\*) HI-717-25: 40 tests

ITEM	PARAMETER	RANGE	ACCURACY	DEVICE	REAGENT	PRICE
HI-775	Alkalinity, fresh water	0 to 300 mg/L	± 5 mg/L	67.00 \$	HI-775-26	30.00 \$
HI-755	Alkalinity, marine	0 to 300 mg/L	± 5 mg/L	67.00 \$	HI-755-26	15.00 \$
HI-772	Alkalinity, salt water	0.0 to 20.0 dKH	± 0.3 dKH	67.00 \$	HI-772-26	14.00 \$
HI-700	Ammonia (low)	0.00 to 3.00 mg/L	± 0.05 mg/L	67.00 \$	HI-700-25	22.00 \$
HI-715	Ammonia (medium)	0.00 to 9.99 mg/L	± 0.05 mg/L	67.00 \$	HI-715-25	29.00 \$
HI-733	Ammonia (high)	0.0 to 99.9 mg/L	± 1.0 mg/L	67.00 \$	HI-733-25*	29.00 \$
HI-716	Bromine	0.0 to 8.0 mg/L	± 0.1 mg/L	67.00 \$	HI-716-25	29.00 \$
HI-720	Calcium hardness	0.40 to 2.70 mg/L	± 0.20 mg/L	67.00 \$	HI-720-25	17.00 \$
HI-758	Calcium, marine	200 to 600 mg/L	± 6 % of reading	67.00 \$	HI-758-26	32.00 \$
HI-753	Chloride	1.0 to 20.0 mg/L	± 0.5 mg/L	67.00 \$	HI-753-25	33.00 \$
HI-701	Free chlorine	0.00 to 2.50 mg/L	± 0.03 mg/L	67.00 \$	HI-701-25	15.00 \$
HI-711	Total chlorine	0.00 to 3.50 mg/L	± 0.03 mg/L	67.00 \$	HI-711-25	15.00 \$
HI-761	Total chlorine (ultra low)	0 to 500 µg/L	± 5 µg/L	67.00 \$	HI-761-25	15.00 \$
HI-771	Total chlorine (ultra high)	0 to 500 mg/L	± 3 mg/L	67.00 \$	HI-771-25	18.00 \$
HI-749	Chromium VI (low)	0 to 300 µg/L	± 3 µg/L	67.00 \$	HI-749-25	15.00 \$
HI-723	Chromium VI (high)	0 to 999 µg/L	± 5 µg/L	67.00 \$	HI-723-25	15.00 \$
HI-727	Color of water	0 to 500 PCU	± 10 PCU	67.00 \$	N/A	N/A
HI-747	Copper (low)	20 to 999 µg/L	± 10 µg/L	67.00 \$	HI-747-25	17.00 \$
HI-702	Copper (high)	0.06 to 5.00 mg/L	± 0.05 mg/L	67.00 \$	HI-702-25	15.00 \$
HI-729	Fluoride (low)	0.00 to 2.00 mg/L	± 0.05 mg/L	67.00 \$	HI-729-26*	15.00 \$
HI-739	Fluoride (high)	0.0 to 20.0 mg/L	± 0.5 mg/L	67.00 \$	HI-739-26*	34.00 \$
HI-718	Iodine	0.0 to 12.5 mg/L	± 0.1 mg/L	67.00 \$	HI-718-25	15.00 \$
HI-746	Iron (low)	0 to 999 µg/L	± 20 µg/L	67.00 \$	HI-746-25	42.00 \$
HI-721	Iron (high)	0.00 to 5.50 mg/L	± 0.04 mg/L	67.00 \$	HI-721-25	15.00 \$
HI-719	Magnesium hardness	0.40 to 2.00 mg/L	± 0.20 mg/L	67.00 \$	HI-719-25	17.00 \$
HI-709	Manganese (high)	0.4 to 20.0 mg/L	± 0.2 mg/L	67.00 \$	HI-709-25	15.00 \$
HI-759	Maple syrup	0 to 100% transmission	± 4% transmission	78.00 \$	N/A	N/A
HI-726	Nickel (high)	0.00 to 7.00 g/L	± 0.10 g/L	67.00 \$	HI-726-25	62.00 \$
HI-764	Nitrite, marine	0 to 200 µg/L	± 10 µg/L	67.00 \$	HI-764-25	15.00 \$
HI-707	Nitrite (low)	0 to 600 µg/L	± 20 µg/L	67.00 \$	HI-707-25	22.00 \$
HI-708	Nitrite (high)	0 to 150 mg/L	± 3 mg/L	67.00 \$	HI-708-25	24.00 \$
HI-713	Phosphate (low)	0.00 to 2.50 mg/L	± 0.04 mg/L	67.00 \$	HI-713-25	15.00 \$
HI-717	Phosphate (high)	0.0 to 30.0 mg/L	± 1.0 mg/L	67.00 \$	HI-717-25*	15.00 \$
HI-736	Phosphorus (low)	0 to 200 µg/L	± 5 µg/L	67.00 \$	HI-736-25	15.00 \$
HI-706	Phosphorus (high)	0.0 to 15.0 mg/L	± 0.2 mg/L	67.00 \$	HI-706-25*	15.00 \$
HI-705	Silica (low)	0.00 to 2.00 mg/L	± 0.03 mg/L	67.00 \$	HI-705-25	40.00 \$
HI-770	Silica (high)	0 to 200 mg/L	± 2 mg/L	67.00 \$	HI-770-25	52.00 \$

## Multiparameter environmental testing

With the **HI-83306**, twenty-four parameters are packed into a self-contained compact casing. Environmental tests can be accurately and rapidly performed when using this photometer. Critical parameters such as pH, DO, nitrite, ammonia and chlorine can be rapidly measured with just one unit without the need to carry a multitude of instruments or test kits. The reagents needed for this instrument come in sizes capable of performing 100 tests, and can be found in the reagent section. The replacement reagents are cost effective and in fact HI-83306 can often measure a parameter at a lower cost-per-test than most chemical test kits. This is naturally in spite of the fact that the accuracy of HI-83306 is far superior to what test kits can offer.



HI-83306



HI-93700-01

ITEM	DESCRIPTION	PRICE
HI-83306	Environmental multiparameter from Hanna.	695.00 \$
HI-83306-11	Cal Check calibration kit.	162.00 \$

### Reagents:

ITEM	PARAMETER	RANGE	PRICE
HI-93700-01	Ammonia (low)	0.00 - 3.00 mg/L	72.00 \$
HI-93701-01	Free chlorine	0.00 - 2.50 mg/L	40.00 \$
HI-93711-01	Total chlorine	0.00 - 3.50 mg/L	40.00 \$
HI-93702-01	Copper (high)	0.00 - 5.00 mg/L	62.00 \$
HI-93732-01	Dissolved oxygen	0.0 - 10.0 mg/L	105.00 \$
HI-93728-01	Nitrate	0.0 - 30.0 mg/L	61.00 \$
HI-93708-01	Nitrite (high)	0 - 150 mg/L	59.00 \$
HI-93707-01	Nitrite (low)	0.00 - 0.35 mg/L	101.00 \$
HI-93710-01	pH	5.9 - 8.5 pH	40.00 \$
HI-93717-01	Phosphate (high)	0.0 - 30.0 mg/L	46.00 \$
HI-93706-01	Phosphorus	0.0 - 15.0 mg/L	52.00 \$

# Instrumentation

## Hanna photometers

The line of Hanna single parameter photometers includes instruments for measuring ammonia, chlorine levels, copper, anionic detergents, fluoride, iron, nitrite, phosphate, phosphorus and others. The advanced optical system employs a specialized LED and a narrow band interference filter, assuring accurate readings. This instrument is equipped with CAL CHECK validation feature and standards to validate good performance at any time.

Taking just a few short steps, the validation procedure is user-friendly and ensures that the meter is properly calibrated wherever you go. Hanna photometers use the exclusive ready-made, NiST traceable standards to verify the performance of the instrument and recalibrate if necessary. Cuvets are made from specialized optical glass to ensure the best and most consistent results. The positive locking system ensures that the cuvet is in the same position every time it is placed into the measuring cell. Our sample cell is designed to fit a cuvet with a wide neck to make it easier to add both sample and reagents. All instruments are factory calibrated and the electronic and optical design minimizes the need for frequent calibration.

The photometer kit (-C) includes 2 sample cuvetts with caps, 9-volts battery, CAL CHECK feature, instruction manual, hard sided carrying case and other complementary accessories. Each reagent kit (-01) allows to make 100 tests, unless otherwise specified.



(\*\*) HI-96724: liquid reagent version.  
For the powder reagent version,  
please contact us.

Kit (-C)  
Price for each kit: 580.00 \$

(\*) HI-95769-01: 40 tests  
(\*) HI-93748-01: 50 tests  
(\*) HI-93737-01: 50 tests  
(\*) HI-93740-01: 50 tests

ITEM	PARAMETER	READING	ACCURACY @ 25°C (77°F)	DEVICE	REAGENT	PRICE
HI-96712	Aluminum	0.00 to 1.00 mg/L (ppm)	± 0.02 mg/L	340.00 \$	HI-93712-01	70.00 \$
HI-96700	Ammonia (low)	0.00 to 3.00 mg/L (ppm)	± 0.04 mg/L	340.00 \$	HI-93700-01	146.00 \$
HI-96715	Ammonia (medium)	0.00 to 9.99 mg/L (ppm)	± 0.05 mg/L	340.00 \$	HI-93715-01	72.00 \$
HI-96733	Ammonia (high)	0.00 to 10.00 mg/L (ppm)	± 0.08 mg/L	340.00 \$	HI-93733-01	80.00 \$
HI-96769	Anionic detergents	0.00 to 3.50 mg/L (ppm)	± 0.04 mg/L	340.00 \$	HI-95769-01*	106.00 \$
HI-96716	Bromine	0.00 to 10.00 mg/L (ppm)	± 0.08 mg/L	340.00 \$	HI-93716-01	259.00 \$
HI-96720	Calcium hardness	0.00 to 2.70 mg/L (ppm)	± 0.11 mg/L	340.00 \$	HI-93720-01	44.00 \$
HI-96753	Chloride	0.0 to 20.0 mg/L (ppm)	± 0.5 mg/L	340.00 \$	HI-93753-01	74.00 \$
HI-96738	Chlorine dioxide	0.00 to 2.00 mg/L (ppm)	± 0.10 mg/L	340.00 \$	HI-93738-01	40.00 \$
HI-96701	Free chlorine	0.00 to 5.00 mg/L (ppm)	± 0.03 mg/L	340.00 \$	HI-93701-01	43.00 \$
HI-96762	Free chlorine (ultra low)	0.000 to 0.500 mg/L	± 0.020 mg/L	340.00 \$	HI-95762-01	43.00 \$
HI-96761	Total chlorine (low)	0.000 to 0.500 mg/L	± 0.020 mg/L	340.00 \$	HI-95761-01	P.O.R.
HI-96724**	Free & total chlorine	0.00 to 5.00 mg/L (ppm)	± 0.03 mg/L	340.00 \$	on demand	85.00 \$
HI-96749	Chromium VI (low)	0 to 300 µg/L (ppb)	± 5 µg/L	340.00 \$	HI-93749-01	47.00 \$
HI-96723	Chromium VI (high)	0.00 to 1000 µg/L (ppb)	± 5 µg/L	340.00 \$	HI-93723-01	123.00 \$
HI-96727	Color of water	0 to 500 PCU	± 10 PCU	340.00 \$	N/A	N/A
HI-96747	Copper (low)	0.000 to 1.500 mg/L (ppm)	± 0.01 mg/L	340.00 \$	HI-95747-01	166.00 \$
HI-96702	Copper (high)	0.00 to 5.00 mg/L (ppm)	± 0.02 mg/L	340.00 \$	HI-93702-01	62.00 \$
HI-96714	Cyanide	0.000 to 0.200 mg/L (ppm)	± 0.005 mg/L	340.00 \$	HI-93714-01	111.00 \$
HI-96722	Cyanuric acid	0 to 80 mg/L (ppm)	± 1 mg/L	340.00 \$	HI-93722-01	106.00 \$
HI-96732	Dissolved oxygen	0.0 to 10.0 mg/L (ppm)	± 0.04 mg/L	340.00 \$	HI-93732-01	111.00 \$
HI-96729	Fluoride (low)	0.00 to 2.00 mg/L (ppm)	± 0.03 mg/L	340.00 \$	HI-93729-01	83.00 \$
HI-96739	Fluoride (high)	0.0 to 20.0 mg/L (ppm)	± 0.5 mg/L	340.00 \$	HI-93739-01	41.00 \$
HI-96704	Hydrazine	0 to 400 µL (ppb)	± 3% at high range	340.00 \$	HI-93704-01	54.00 \$
HI-96718	Iodine	0.0 to 12.5 mg/L (ppm)	± 1 mg/L	340.00 \$	HI-93718-01	143.00 \$
HI-96746	Iron (low)	0.00 to 1.60 mg/L (ppm)	± 0.01 mg/L	340.00 \$	HI-93746-01	32.00 \$
HI-96721	Iron (high)	0.00 to 5.00 mg/L (ppm)	± 0.04 mg/L	340.00 \$	HI-93721-01	44.00 \$
HI-96719	Magnesium hardness	0.00 to 2.00 mg/L (ppm)	± 0.11 mg/L	340.00 \$	HI-93719-01	74.00 \$
HI-96748	Manganese (low)	0 to 300 µg/L (ppb)	± 10 µg/L	340.00 \$	HI-93748-01*	184.00 \$
HI-96709	Manganese (high)	0.0 to 20.0 mg/L (ppm)	± 0.2 mg/L	340.00 \$	HI-93709-01	77.00 \$
HI-96730	Molybdenum	0.0 to 40.0 mg/L (ppm)	± 0.03 mg/L	340.00 \$	HI-93730-01	129.00 \$
HI-96740	Nickel (low)	0.000 to 1.000 mg/L (ppm)	± 0.010 mg/L	340.00 \$	HI-93740-01*	270.00 \$
HI-96726	Nickel (high)	0.00 to 7.00 g/L	± 0.07 mg/L	340.00 \$	HI-93726-01	275.00 \$
HI-96786	Nitrate	0 to 100 mg/L (ppm)	± 5 mg/L	340.00 \$	HI-93728-01	105.00 \$
HI-96728	Nitrate - Nitrogen	0.0 to 30.0 mg/L (ppm)	± 0.5 mg/L	340.00 \$	HI-93728-01	105.00 \$
HI-96707	Nitrite (low)	0.000 to 0.600 mg/L (ppm)	± 0.020 mg/L	340.00 \$	HI-93707-01	59.00 \$
HI-96708	Nitrite (high)	0 to 150 mg/L (ppm)	± 4 mg/L	340.00 \$	HI-93708-01	61.00 \$
HI-96713	Phosphate (low)	0.00 to 2.50 mg/L (ppm)	± 0.04 mg/L	340.00 \$	HI-93713-01	101.00 \$
HI-96717	Phosphate (high)	0.0 to 30.0 mg/L (ppm)	± 1.0 mg/L	340.00 \$	HI-93717-01	55.00 \$
HI-96706	Phosphorus	0.0 to 15.0 mg/L (ppm)	± 0.3 mg/L	340.00 \$	HI-93706-01	46.00 \$
HI-96750	Potassium (low)	0.0 to 10.0 mg/L (ppm)	± 1.5 mg/L	340.00 \$	HI-93750-01	52.00 \$
HI-96705	Silica (low)	0.00 to 2.00 mg/L (ppm)	± 0.03 mg/L	340.00 \$	HI-93705-01	184.00 \$
HI-96770	Silica (high)	0 to 200 mg/L (ppm)	± 1 mg/L	340.00 \$	HI-96770-01	80.00 \$
HI-96737	Silver	0.0 to 50.0 mg/L (ppm)	± 0.05 mg/L	340.00 \$	HI-93737-01*	202.00 \$
HI-96751	Sulfate	0 to 150 mg/L (ppm)	± 1 mg/L	340.00 \$	HI-93751-01	70.00 \$
HI-96731	Zinc	0.00 to 3.00 mg/L (ppm)	± 0.03 mg/L	340.00 \$	HI-93731-01	81.00 \$

# Instrumentation

## YSI photometers

YSI photometers are sophisticated water quality analysis systems that measure a variety of parameters and provide simple on-screen instructions that are easy to read. Results are available within seconds after the analysis.

**Photometers available with 50 tests (by default) or 250 tests reagents (on demand).**

The **9300** photometer includes carrying case, light cap, 8 test tubes, dilution tube, cleaning brush and instruction manual. Backlit display.

The **9500** version includes all the above plus a waterproof USB connection, internal memory that holds up to 500 sample sets and a number of user-selectable options such as test units, sample number and dilution factors.



ITEM	DESCRIPTION	PRICE
9300	YSI photometer.	1 712.00 \$
9500	YSI photometer with USB connection.	2 208.00 \$
AT-1707	Conditioner for test in saltwater (50 tests).	53.12 \$

### Reagents for YSI photometer (50 tests):

ITEM	DESCRIPTION + RANGE	PRICE
PM-250	Alkalinity-M (Alkaphot M), 0 - 500 mg/L.	55.98 \$
PM-251	Alkalinity-P (Alkaphot P), 0 - 500 mg/L.	57.58 \$
PM-188	Alkalinity Total, 0 - 500 mg/L.	59.18 \$
PM-166*	Aluminum, 0 - 0.5 mg/L.	62.38 \$
PM-152**	Ammonia, 0 - 1.0 mg/L.	83.18 \$
AP-152**	Ammonia, 0 - 1.0 mg/L (250 tests).	188.16 \$
PM-060	Bromine, 0 - 10 mg/L.	54.38 \$
PM-252*	Calcium hardness, 0 - 500 mg/L.	59.18 \$
PM-268	Chloride (Chloridol), 0 - 50 mg/L.	73.58 \$
PM-162*	Chlorine [high], 0 - 250 mg/L.	55.98 \$
PM-011	Chlorine DPD 1 [Free], 0 - 5 mg/L.	19.18 \$
PM-021***	Chlorine DPD 2 [Mono & Dichl.], 0.5 mg/L.	23.98 \$
PM-031	Chlor. DPD 1 & 3 [Free, combined & total], 0 - 5 mg/L.	39.98 \$
PM-281	Chromium VI (Hexavalent), 0 - 1 mg/L.	91.18 \$
PM-186	Copper (Coppercol) [Free, comb. & total], 0 - 5 mg/L.	95.98 \$
PM-087	Cyanuric acid, 0 - 200 mg/L.	46.38 \$
PM-179	Fluoride, 0 - 1.5 mg/L.	78.38 \$
PM-254	Hardness (Hardicol), 0 - 500 mg/L.	68.78 \$
PM-104	Hydrogen peroxide [low], 0 - 2 mg/L.	39.18 \$
PM-105	Hydrogen peroxide [high], 0 - 100 mg/L.	51.18 \$
PM-155	Iron [low], 0 - 1 mg/L.	45.58 \$
PM-156*	Iron [high], 0 - 10 mg/L.	45.58 \$
PM-193*	Magnesium (Magnecol), 0 - 100 mg/L.	68.78 \$
PM-173	Manganese, 0 - 0.03 mg/L.	70.38 \$
PM-175	Molybdate [high], 0 - 100 mg/L.	68.78 \$
PM-163	Nitrate, 0 - 20 mg/L.	94.38 \$
PM-109	Nitrite (N), 0 - 0.5 mg/L.	39.98 \$
PM-260	Nitrite (NANO <sup>2</sup> ), 0 - 1500 mg/L.	65.58 \$
PM-262	Organophosphate (OP), 0 - 20 mg/L.	148.78 \$
PM-056	Ozone, 0 - 2 mg/L.	94.38 \$
PM-130	pH (phenol red), 6.8 - 8.4 mg/L.	28.78 \$
PM-177	Phosphate [low], 0 - 4 mg/L.	51.18 \$
PM-114	Phosphate [high], 0 - 100 mg/L.	70.38 \$
PM-189	Potassium, 0 - 12 mg/L.	70.38 \$
PM-181	Silica, 0 - 4 mg/L.	87.98 \$
PM-154	Sulfate, 0 - 200 mg/L.	34.38 \$
PM-266	Sulfite, 0 - 500 mg/L.	62.38 \$
PM-148*	Zinc, 0 - 4 mg/L.	89.58 \$

(\* ) Not recommended for saltwater testing.

(\*\*) AT-1707 conditioner required for tests in saltwater.

(\*\*\*) PM-031 required.

## HACH DR900 colorimeter

This portable colorimeter allows for quick and easy access to your most frequently used testing methods. **DR900** is waterproof, dustproof and shock resistant.

With its intuitive user interface, easy transfer data capacities and over 90 colorimetric parameters you can choose for your water applications, the DR900 makes testing in harsh field environments a little less challenging.



ITEM	DESCRIPTION	PRICE
DR900	HACH DR900 colorimeter, 90 parameters.	2 344.56 \$
49425-00	Hard carrying case for DR900.	178.96 \$
27220-00	Soft-sided carrying case.	245.00 \$

## LaMotte colorimeter

Ideal for water analysis in the field or in the lab. Easy to use software allows the analyst to choose a test factor from over 80 preprogrammed calibrations for LaMotte reagent systems.



The data logger holds up to 500 time and date stamped data points.

ITEM	DESCRIPTION	PRICE
PEN-LM1910	LaMotte SMART3 colorimeter.	1 598.38 \$
PEN-LM1910CD	SmartLink3 program.	110.38 \$
0290-6	Test tubes with caps (x6).	44.62 \$

### Reagents for LaMotte colorimeter:

ITEM	DESCRIPTION (# of tests) + RANGE	PRICE
LM-3659-SC	Ammonia nitrogen [fresh and salt water] (25).	80.94 \$
LM-3642-SC	Ammonia nitrogen [high] (100), 0.05 - 4.0 ppm.	69.26 \$
LM-3643-SC	Bromine [low], Chlorine [Free/Total] & Iodine (100).	92.46 \$
LM-3644-SC	Chlorine dioxide (100), 0.06 - 8.0 ppm.	57.74 \$
LM-3640-SC	Copper [low] (50), 0.04 - 3.50 ppm.	46.24 \$
LM-3688-SC	Dissolved oxygen (200), 0.6 - 11.0 ppm.	67.82 \$
LM-3647-SC	Fluoride (50), 0.10 - 2.00 ppm.	82.25 \$
LM-3648-SC	Iron (50), 0.1 - 6.0 ppm.	67.66 \$
LM-3658-SC	Manganese [low] (50), 0.01 - 0.7 ppm.	101.58 \$
LM-3649-SC	Nitrate nitrogen [low] (20), 0.1 - 3.0 ppm.	75.66 \$
LM-3650-SC	Nitrite nitrogen [low] (20), 0.2 - 0.8 ppm.	75.66 \$
LM-3700-SC	pH [CPR, PR & TB] (100).	85.26 \$
LM-3653-SC	Phosphate [low] (50), 0.05 - 3.0 ppm.	63.98 \$
LM-3655-SC	Phosphate [high] (50), 0.5 - 70.0 ppm.	36.78 \$
LM-3639-SC	Potassium (100), 0.8 - 10.0 ppm.	99.18 \$
LM-3665-SC	Sulfate [high] (100), 3.0 - 100.0 ppm.	49.42 \$
LM-3654-SC	Sulfide [low] (50), 0.06 - 1.50 ppm.	110.82 \$
LM-3666-SC	Tannin (50), 0.1 - 10.0 ppm.	87.50 \$
LM-3667-SC	Zinc [low] (50), 0.05 - 3.00 ppm.	187.35 \$

# Instrumentation

## pH meters pHep 4 - pHep 5

pHep's ease-of-use in combination with its affordability made it possible for non-technical and technical personnel alike to measure pH on the spot, accurately and inexpensively. pHep 4 and pHep 5 include a dual-level LCD, battery level indicator, replaceable pH electrode cartridge, instability indicator, automatic shut-off and automatic calibration all in a floating, waterproof casing.

**HI-98127:** 0.1 pH resolution / **HI-98128:** 0.01pH resolution.



ITEM	DESCRIPTION	PRICE
HI-98127	Complete pHep 4 with battery and tool. (0.1pH)	125.00 \$
HI-98128	Complete pHep 5 with battery and tool. (0.01pH)	145.00 \$
HI-73127	Spare pH electrode.	85.00 \$

## Combo pH / Conductivity / T°

The **HI-98129** Combo waterproof tester offers high accuracy pH, EC/TDS and temperature measurements in a single tester. The waterproof Combo (it even floats) has a large easy-to-read, dual-level LCD and automatic shut-off. pH and EC/TDS readings are automatically compensated for the effects of temperature (ATC). Replaceable pH electrode cartridge with an extendable cloth junction.

**HI-98129:** reading of 0 to 3999  $\mu\text{S}/\text{cm}$  // **HI-98130:** reading of 0 to 20 mS/cm.



ITEM	DESCRIPTION	PRICE
HI-98129	Test pH, Conductivity, T°. (EC 0 to 3999 $\mu\text{S}/\text{cm}$ )	210.00 \$
HI-98130	Test pH, Conductivity, T°. (EC 0.00 to 20.00 mS/cm)	210.00 \$
HI-73127	Spare electrode for HI-98129 & 98130.	85.00 \$

## Combo pH / ORP tester

This tester reads temperature, which is continuously shown on the dual-level LCD display. The pH electrode is easily replaceable. An encapsulated external stainless steel sensor, positioned in close proximity to the pH electrode, provides fast response. A fibre junction can be easily pulled out and replenished. The pH electrode cartridge can be quickly replaced with the supplied electrode removal tool, reducing waste and cost. It works with common batteries and when turned on, displays the percentage of the remaining battery life. The stability indicator ensures reliable readings.



ITEM	DESCRIPTION	PRICE
HI-98121	pH and ORP tester.	230.00 \$
HI-73127	Spare pH electrode.	85.00 \$
HI-7020M	ORP test solution at 200/275 mV. (230ml)	35.00 \$

## ORP / temperature tester

Oxidation is a process in which a molecule or ion loses electrons. Reduction is a process by which electrons are gained. A measurement of the potential for these processes to occur is called ORP (Oxidation Reduction Potential). The **HI-98120** is a waterproof ORP and temperature meter. ORP can be measured in a range of +/-1000mV and temperature can be displayed in °C or °F. HI-98120 provides a battery level indication at startup and the Battery Error Prevention System (BEPS) avoids erroneous readings caused by low-voltage level.



ITEM	DESCRIPTION	PRICE
HI-98120	ORP / temperature tester.	181.00 \$
HI-73120	Spare pH electrode for HI-98120.	88.00 \$
HI-7020M	ORP test solution at 200/275 mV (230mL).	35.00 \$

## TECHNICAL TAB FOR POCKET TESTERS

Specifications	ORP HI-98120	pH/ORP HI-98121	pHep 4 HI-98127	pHep 5 HI-98128	Combo HI-98129	Combo HI-98130	DiST 5 HI-98311	DiST 6 HI-98312
<b>Range</b>								
pH 0.0 to 14.0			X					
pH 0.00 to 14.00		X		X	X	X		
EC 0 to 3999 $\mu\text{S}/\text{cm}$					X		X	
EC 0.00 to 20.00 mS/cm						X		X
TDS 0 to 2000 ppm					X		X	
TDS 0.00 to 10.00 ppt						X		X
ORP $\pm$ 1000 mV	X							
Temperature 0.0 to 60.0°C	X	X	X		X	X	X	X
Temperature 32.0 to 140.0°F	X	X	X	X	X	X	X	X
<b>Resolution</b>								
0.1 pH			X	X				
0.01 pH		X			X	X		
1 $\mu\text{S}/\text{cm}$ EC				X	X		X	
0.01 mS/cm EC						X		X
1 ppm TDS					X		X	
0.01 ppt TDS						X		X
1 mV ORP	X							
0.1°F/°C	X	X	X		X	X	X	X
<b>Accuracy (@ 20°C/68°F)</b>								
$\pm$ 0.1 pH			X	X				
$\pm$ 0.05 pH		X			X	X	X	
$\pm$ 2% F.S. EC/TDS				X	X	X	X	X
$\pm$ 2 mV ORP	X							
$\pm$ 0.5°C	X	X	X			X		X
$\pm$ 1°F	X	X	X	X	X	X	X	X
<b>Calibration*</b>								
pH automatic*		X	X	X	X	X		
EC/SDT automatic**				X	X	X	X	X
<b>Automatic T° compensation</b>		X	X		X	X	X	X
<b>Battery type (4) 1.5V</b>	X	X	X	X	X	X	X	X
<b>Battery life (hours)</b>	300	250	300	300	100	100	100	100
<b>Battery error prevention (BEPS)</b>	X	X	X	X	X	X	X	X
<b>Auto-off after 8 minutes</b>	X	X	X	X	X	X	X	X

# Instrumentation

## Ecosense pH / temp meter (pH100A)

The EcoSense **pH100A** measures pH and temperature (ORP requires separate probe) quickly and accurately. Features include internal buffer recognition, auto/manual temperature compensation and a large LCD display that simultaneously shows pH or mV and temperature in °C. Ideal for wastewater & surface water testings, and aquaculture installations. IP67 graded. One-year warranty on the meter and 6 months on the probe. **Meter and probe sold separately.**



**pH:** -2 to 16 pH  
**mV:** -1999 to 1999 mV  
**Temperature:** -10° to 120°C  
 (14° to 248°F)



ITEM	DESCRIPTION	PRICE
Y-1000A	pH100A meter only.	437.98 \$
Y-1001	pH/Temp probe with 3-feet cable.	178.44 \$
Y-1004	pH/temp probe with 12-feet cable.	235.18 \$
Y-1101	pH probe with 3-feet cable.	95.98 \$
Y-1201	Temp probe with 3-feet cable.	87.98 \$
Y-1251	ORP probe with 3-feet cable.	151.98 \$
Y-1111	Piercing probe double junction.	235.18 \$
Y-1122	Flat glass probe double junction.	235.18 \$

## Ecosense pH / temp pen (pH10A)

The EcoSense **pH10A** pH/Temperature pen features one-hand operation, 50-set memory and low cost. Measures 0 to 14 pH with an accuracy of ±0.02. The pen has IP67 waterproof gray housing; ATC; auto buffer recognition with 1-, 2- or 3-point calibration and a replaceable electrode.

Real time clock provides data, date and time stamp. "Hold" feature locks reading on display, which has on-screen instructions. Has a belt clip and lanyard on the back and floats if dropped in water. One-year warranty on the pen and 6 months on the probe.



### Specifications:

- Battery lasts 200 hours
- Waterproof IP67 graded
- 1, 2 or 3-point calibration
- Up to 50-set data memory
- Automatic calibration and buffer recognition



ITEM	DESCRIPTION	PRICE
Y-PH10A	pH10A pen analyzer.	185.58 \$
Y-606110	Replacement electrode for Y-PH10A.	84.78 \$
Y-605118	LR44 replacement batteries (x4).	7.98 \$
Y-580	Carrying case for pH10A.	46.38 \$

## pH, EC & TDS monitors

The MC monitors are designed to continuously monitor pH, EC (conductivity) or TDS (Total Dissolved Solids) values directly in your reservoir. Each unit features a user selectable set-point. An LED visual alarm is activated and flashes when the pH, EC or TDS level rises either above or below that set point (user selected).



**pH:** 0 to 14 pH  
**Accuracy:** ± 0.2 pH  
**Power supply:** 12 VDC

All these instruments run on a 12V adapter so there's no need to worry about failed batteries and each unit comes with mounting kit, probe, probe holder and starter calibration solution. Double junction pH electrode (BNC connector) with 2-meter cable available as an accessory for the monitor (**MA911B-2**).

ITEM	DESCRIPTION	PRICE
MC110	MC monitor (setpoint range between 3.5 and 7.5 pH).	182.00 \$
MC120	MC monitor (setpoint range between 5.5 and 9.5 pH).	182.00 \$
MA911B-2	Double junction pH electrode with 2-meter cable.	74.20 \$

## IntelliChem pH & chlorine controller

This controller continuously monitors your pH & chlorine levels and automatically delivers just the required amount of chemicals in your pool (or other aquatic installations). IntelliChem controller works with or without a salt chlorine generator that gives continuous renewal of chlorine generated by salt. The controller can also be connected to liquid feed pumps and Co2 systems. The controller enables to program the appropriate dosing cycle and prevents the excess of non-desired chemical elements in order to keep your water clean and safe. The flow sensor ensures chemicals won't feed without system flow, protecting against false readings and equipment damage.



ITEM	DESCRIPTION	PRICE
521357	IntelliChem pH & chlorine controller only.	1 673.00 \$
522186	Replacement probe for pH.	166.57 \$
522187	Replacement probe for ORP.	198.52 \$

## pH & ORP controller

The pH and ORP controller has a user selectable set point and a visual "Power Activated" LED notification light. Power to the controller box is turned on when the reading is above or below the selected set point (user selected). This MC controller is ideal for Co2 or ozone dosing. Each unit comes with 12 VDC adapter, mounting kit, probe, probe holder and starter calibration solution for pH (factory calibrated for ORP). Double junction pH electrode (BNC connector) with 2-meter cable available as an accessory for the monitor (**MA911B-2**).



**pH:** 0 to 14 pH  
**Accuracy:** ± 0.2 pH  
**Power supply:** 12 VDC

ITEM	DESCRIPTION	PRICE
MC125	pH and ORP controller (resolution of 0.01 pH).	434.00 \$
MA911B-2	Double junction pH electrode with 2-meter cable.	74.20 \$

## Ecosense conductivity meter (EC300A)

The **EC300A** offers convenient conductivity, specific conductance, salinity, total dissolved solids and temperature with a super-stable, four-electrode conductivity cell for true field applications. Simple, affordable one-handed operation for a multitude of applications to measure conductivity, specific conductance, salinity, TDS and temperature.

Available with 1, 4 or 10-meter cable lengths. Cables include the rugged, weighted probe assembly attached. The four-electrode cell is superior for conductivity performance in the field. 9V battery that can last up to 500 hours of use.



**Conductivity:** 0 to 499.9  $\mu\text{S}/\text{cm}$   
0 to 4999  $\mu\text{S}/\text{cm}$   
0 to 49.99  $\text{mS}/\text{cm}$   
0 to 200  $\text{mS}/\text{cm}$   
**Salinity:** 0.0 to 70.0 ppt total  
**Temperature:** -10° to 90°C (14° to 194°F)



ITEM	DESCRIPTION	PRICE
YEC300A1	Conductivity meter & probe kit with 1-meter cable.	903.98 \$
YEC300A4	Conductivity meter & probe kit with 4-meter cable.	935.98 \$
YEC300A10	Conductivity meter & probe kit with 10-meter cable.	959.98 \$
YEC300A	EC300A conductivity meter only.	479.98 \$
Y606044	1-meter cable with probe.	399.98 \$
Y605395	4-meter cable with probe.	423.98 \$
Y3167E	Calibration solution for fresh water (1000 $\mu\text{S}/\text{cm}$ ).	31.98 \$
Y3168E	Calibration sol. for brackish water (10,000 $\mu\text{S}/\text{cm}$ ).	33.58 \$
Y606043	Hard sided carrying case.	63.98 \$

## Ecosense conductivity meter (EC30A)

The **EC30A** offers convenient conductivity, specific conductance, salinity, total dissolved solids and temperature with a super-stable, four-electrode conductivity cell for true field applications. The conductivity meter can be used whenever you need it. IP67 waterproof housing, clear and easy-to-read display with on-screen instructions, selectable units of measure for conductivity / TDS and temperature. Calibration solution available for fresh, brackish and salt water.



**One-year warranty.**

**Conductivity:** 0  $\mu\text{S}$  to 19.90  $\text{mS}$   
**Resolution:** 0 to 1990  $\mu\text{S}/\text{cm}$   
5  $\mu\text{S}/\text{cm}$   
2.0 to 19.90  $\text{mS}/\text{cm}$   
0.05  $\text{mS}/\text{cm}$   
**Temperature:** 0° to 99.5°C (32° to 212°F)



ITEM	DESCRIPTION	PRICE
YEC30A	EC30A conductivity meter.	235.18 \$
Y3167E	Calibration solution for fresh water (1000 $\mu\text{S}/\text{cm}$ ).	31.98 \$
Y3168E	Calibration sol. for brackish water (10,000 $\mu\text{S}/\text{cm}$ ).	33.58 \$
Y3169E	Calibration sol. for salt water (50,000 $\mu\text{S}/\text{cm}$ ).	33.58 \$

## Professional conductivity meters

Measure 4 parameters with 1 single probe. These portable meters offer you a combination of pH, conductivity, total dissolved solids and temperature measurements. You can select from a range of calibration buffers and also the temperature scale (°C or °F) can be selected.

Other features include different TDS factors from 0.45 to 1.00, and a range of temperature coefficients ( $\beta$ ) from 0.0 to 2.4% for greater consistency and reproducibility. The stability indicator prompts the user when the reading stabilizes. The auto-hold function automatically freezes reading for later viewing. Large and easy-to-read display provides simultaneous readings of pH and temperature or EC/TDS and temperature. Includes a 1-meter probe, calibration solution sachets, 9V battery and instruction manuals.



## Hanna waterproof EC / TDS / T° testers

Conductivity and Total Dissolved Solids measurements have never been easier. DiST's ease-of-use, in combination with its affordability, made it the standard in EC and TDS measurement.

The **DiST 5** and **DiST 6** include features such as a replaceable graphite electrode, adjustable TDS ratio between 0.45 and 1.00, temperature in °C or °F, automatic temperature compensation (ATC) with adjustable  $\beta$  from 0.0 to 2.4% by °C, battery level indicator, stability indicator, automatic shut-off after 8 minutes of non-use and automatic calibration.

The graphite conductivity electrode offers greater accuracy by resisting contamination by salt deposits in the sample. All of these features are packed in a floating, waterproof casing.

**Please refer to the technical tab at the previous page.**

- **DiST 5:** 0 to 3999  $\mu\text{S}/\text{cm}$  (EC)
- **DiST 6:** 0.0 to 20.00  $\text{mS}/\text{cm}$  (EC)



ITEM	DESCRIPTION	PRICE
HI-98311	DiST 5 complete with probe and battery.	140.00 \$
HI-98312	DiST 6 complete with probe and battery.	140.00 \$
HI-73311	Replacement electrode for DiST.	80.00 \$

### MI-805

**Conductivity:** 0.0 to 14.0 pH  
0 to 3999  $\mu\text{S}/\text{cm}$   
0 to 1999 ppm  
**Resolution:** 0.01 pH  
1  $\mu\text{S}/\text{cm}$   
1 ppm  
**Temperature:** 0° to 60°C

### MI-806

**Conductivity:** 0.0 to 14.0 pH  
0.0 to 20.0  $\text{mS}/\text{cm}$   
0.0 to 10.0 ppt  
**Resolution:** 0.01 pH  
0.1  $\text{mS}/\text{cm}$   
0.01 ppt  
**Temperature:** 0° to 60°C

ITEM	DESCRIPTION	PRICE
MI-805	Pro-1 conductivity meter + probe (1-meter cable).	649.60 \$
MI-806	Pro-2 conductivity meter + probe (1-meter cable).	649.60 \$
MA851D-1	Replacement probe with 1-meter cable.	192.50 \$

# Instrumentation

## Total dissolved gas pressure meter (TGP)

Increasing water temperatures, injection of air in water, algal blooms or pressurized pumping can result in gas supersaturation. This may lead to bubble trauma or sub-lethal toxicological problems for aquatic species. The TGP probe provides a rapid and accurate measurement of total dissolved gas pressure.

The tracker has simple calibration procedures and easy to understand menus. The handheld meter features a tough membrane keypad and graphical display with a user-selectable backlight. The tracker has two pressure sensors, one measures total dissolved gas pressure (TGP), and the other measures barometric pressure (BP). Also has datalogging capabilities. The batteries are rechargeable and an AC adapter is included with each unit.

**\*\* Tracker and probe sold separately. \*\***



Included with the tracker:

- Charger cable with AC adapter
- Plastic waterproof pouch
- Instruction manual
- Data transfer cable with USB adapter
- TGP pressure test syringe kit

### System specifications:

PARAMETERS	RANGE	DATA	RESOLUTION
MEASURES:	Total Gas Pressure (TGP)	0 - 1.550 mmHg	1 mmHg
	Barometric Pressure (BP)	0 - 1.550 mmHg	1 mmHg
	Temperature	0.0° - 40.0°C	0.1°C
DERIVED:	Total Gas Pressure (TGP)	0 - 200%	1%
	ΔP (TGP-BP)	-1.550 - 1.550 mmHg	1 mmHg

ITEM	DESCRIPTION	PRICE
1SSM100	PT4 tracker handheld meter.	1 143.98 \$
1SSP0031	TGP/Temperature Smart probe, 5-meter cable.	1 836.00 \$
1SSP060	LUMI4 TGP optical DO/Temp. probe, 5m cable.	5 456.00 \$
1SSA025	Replacement TGP cartridge for 1SSP0031.	299.18 \$
1SSP070	LUMI4 replacement DO probe cap.	556.78 \$
1SSP080	LUMI4 replacement TGP cartridge.	332.78 \$
1SSA015	PT4 tracker package with case, batteries & charger.	1 247.98 \$
9EPTPS003	GEL CELL battery (6V, 12 AH).	68.78 \$
9EMSC033	NIMH rechargeable battery pack (4x AA).	55.98 \$
1SSA005	Charger cable with AC adapter.	150.38 \$
1SSA006	Charger cable with car adapter.	150.38 \$
1SSA007	Data transfer cable with USB adapter.	143.98 \$



## Total dissolved gas pressure transmitter (TGP)

The Point Four Systems TGP Transmitter is a stand-alone probe for the measurement of total dissolved gas pressure. It provides measurement for TGP (mmHg or % saturation), ΔP (TGP-BP), barometric pressure (BP) (mmHg) and temperature (°C).

Two analog outputs are available from each TGP probe. They are available in 0-20 mA, 4-20 mA or 0-5 VDC and can be configured to any of the five available measurement parameters. Measurements are also available via RS-485 and can be viewed on a PC with the optional software package (**1SSA029**). TGP probes are not loop-powered and can accept a 9-33 VDC power supply. 115 VAC to 12 VDC power supply is optional.



1SSM002

ITEM	DESCRIPTION	PRICE
1SSM002	TGP transmitter.	1 537.26 \$
1SSA025	Replacement TGP cartridge.	299.18 \$
1SSA029	PC software and cable.	126.06 \$
1PTPS011	115 VAC to 12 VDC power supply.	77.58 \$

**\*\* See the "System specifications" tab right next of this item to know about the parameters of this product. \*\***

## OxyGuard portable Co2 meter

The OxyGuard portable Co2 meter is a reliable and easy-to-use instrument that measures dissolved carbon dioxide in water. The meter consists of a probe and a battery powered transmitter.

The meter displays Co2 concentration and an analog signal as output. The transmitter has an on/off switch, "slope" and "zero" adjustments.

Measures the Co2 gas pressure directly and is not affected by carbonates or other dissolved substances. It is therefore possible to achieve simple, continuous direct measurements of carbon dioxide in water that affects fish.



ITEM	DESCRIPTION	PRICE
10XYCO485	OxyGuard Co2 portable.	4 355.20 \$
10XYCO495*	OxyG. Co2 portable, 230 VAC charger.	5 528.00 \$
10XYCO477	pH conditioner, 75 grams.	35.50 \$
10XYCO478	Calibration solution, 100 ml.	100.78 \$
10XYCO476	Calibration beaker with stirrer.	680.46 \$
10XYCO480	Calibration accessories pack.	616.62 \$
10XYCO496	OxyGuard dissolved Co2 probe.	1 308.78 \$

**(\*) Includes a data logger (integrated).**

## YSI DO200A dissolved oxygen meters

This product is accurate, compact and economical. **DO200A** measures simultaneously dissolved oxygen, in percentage or in mg/L, and water temperature.

DO200A is easy to use and gives fast and accurate results. Available with 4 or 10-meter long cable.



- Weight: 350 g (0.75 lbs)
- Temperature from -6° to 46°C
- Waterproof up to 1 meter IP65
- 1-year warranty on device and probe
- 0 - 20 mg/l, 0 - 200% dissolved oxygen
- Automatic temperature compensation
- Manual salinity compensation, 0.0 to 40 ppt
- Pressure compensation, 600 to 1100 millibars
- Dimensions: 70mm x 186mm



## OxyGuard Handy POLARIS oxygen meters

The OxyGuard Handy Polaris is a portable dissolved oxygen (D.O.) meter that also measures % saturation, mg/L (ppm), temperature and has salinity compensation. Measurements are compensated for temperature and barometric pressure. The probe is galvanic type and fully field-serviceable. Has a large display with backlight and offers automatic calibration and the choice of language and units of measurement. Each unit is supplied with a detachable clip for easy attachment to a belt or clipboard.

The OxyGuard Handy Polaris 2 combines the features of the original Polaris with the convenience of data logging and data transfer capability. The Polaris 2 has a larger display with backlight and offers automatic calibration, and the choice of language and units of measurement. Includes a detachable clip for easy attachment to a belt or clipboard. USB compatible with software (can be used with multiple units).



Polaris



Polaris 2

- Cable:** 3 meters
- Salinity comp.:** 0 to 59 ppt salinity
- Display:** Wide, LCD, backlit
- Conditions:** Probe: -5° to 45°C, Meter: -20° to 60°C
- Range:** 0 to 60.0 mg/L & 0 to 600% of saturation
- Battery:** 2 years (1 hour/day); 5 months (8 hours/day)
- Probe:** Galvanized, self polarizing, self T° compensating
- Parameters:** ppm (mg/L), % saturation, T° (°C or °F), salinity comp.

ITEM	DESCRIPTION	PRICE
DO200A	YSI DO200A oxygen meter only.	463.98 \$
DO200A-4	YSI DO200A oxygen meter with 4-meter cable.	876.00 \$
DO200A-10	YSI DO200A oxygen meter with 10-meter cable.	928.00 \$
Y200-4	4-meter cable with probe only.	495.98 \$
Y200-10	10-meter cable with probe only.	527.98 \$
Y5908	Replacement membrane, cap type (pack of 6).	95.98 \$
Y200-BOD	Biochemical oxygen demand probe.	1 095.98 \$
Y606330	Hard plastic carrying case with foam insert.	63.98 \$

## YSI optical DO & temperature meter

The **ODO200** handheld dissolved oxygen meter uses optical technology and provides the most accurate data in the most affordable format. The ODO200 simultaneously measures dissolved oxygen % and mg/L and (optical) temperature.

- 50 data set reviewable memory
- Temperature: 0° to 50°C
- 0 - 20 mg/l, 0 - 200% dissolved oxygen
- IP67 waterproof case
- 1-year warranty on the meter, probe & sensor cap
- Normal sensor lifetime: from 12 to 18 months
- Manual input for salinity and pressure compensation



ITEM	DESCRIPTION	PRICE
Y606329	YSI ODO200 optical DO/temp meter only.	527.98 \$
Y606327	1-meter cable with probe only.	943.98 \$
Y606328	4-meter cable with probe only.	959.98 \$
Y606304	10-meter cable with probe only.	1 079.98 \$
Y606326	Sensor cap kit.	191.98 \$
Y606330	Hard plastic carrying case with foam insert.	63.98 \$

ITEM	DESCRIPTION	PRICE
POLARIS	Polaris oxygen meter, regular.	1 375.98 \$
POLARIS-2	Polaris 2 meter w/ USB connection and software.	1 641.60 \$

### ACCESSORIES:

10XHA013	Handy membranes kit (10).	27.50 \$
10XPA016	Electrolyte OxyGuard handy 50 ml.	8.62 \$
10XPA015	Electrolyte OxyGuard handy 250 ml.	17.26 \$
10XPA014	Electrolyte OxyGuard handy 1L.	38.22 \$
10XHA010	Membrane installation tool.	40.25 \$
10XHA006	Handy membrane protection cap.	105.90 \$
10XHA007	Probe protection cap.	50.70 \$
10XHM074	USB link w/ software for Polaris 2.	426.70 \$

## Technique

### Dissolved oxygen measurement

Oxygen meters can determine the amount of dissolved oxygen in a liquid solution. We generally express this quantity of oxygen in parts per million (ppm) or in percent saturation (%), defined as the percentage of dissolved oxygen in 1 liter of water. The amount of dissolved oxygen is a good indicator of water quality.

It is essential to control the dissolved oxygen amount in water treatment, where low oxygen concentration is synonymous with pollution.

# Instrumentation

## Dissolved oxygen data logger

The **EDO** dissolved oxygen data logger measures oxygen in lakes, streams, rivers, estuaries and costal waters. This affordable and precise data logger is recommended for aquatic biology and hydrology research projects. The EDO-001 uses RDO® Basic (Rugged Dissolved Oxygen) optical DO sensor technology and is easy to maintain, all this for a fraction of the normal cost for other monitor options.

Optical DO sensor technology for long-lasting calibration with less maintenance. This logger provides salinity-adjusted DO concentrations and percent saturation. Optical USB interface for high-speed, reliable data offload. Easy-to-replace DO sensor cap lasts up to six months of regular usage.



**Range:** 0 to 30 mg/L  
**Accuracy:** 0.2 mg/L  
**Temperature:** -5° to 40°C (23° to 104°F)  
**Memory (measurement):** 21,700 sets of DO and temperature  
**Logging rate:** 1 minute to 18 hours  
**Depth rating:** 100 m (328')  
**Dimensions:** 39.6 mm Ø x 266.7 mm (1.56" Ø x 10.5")

ITEM	DESCRIPTION	PRICE
EDO-001	Dissolved oxygen data logger.	2 223.20 \$

## HOB0 data logger

The HOB0 4-external channel data logger accepts a wide range of external sensors. The 12-bit resolution provides great data accuracy. The **UX120-006M** model with LCD display screen is able to measure temperature, tension, AC voltage, Co2, 4-20mA, carbon dioxide, kilowatts and more. Can save up to 1.9 million measures.

The logging rate is between 1 second and 18 hours. The UX120-006M is designed to operate in indoor environments only. The **U12-008** model is made for both indoor & outdoor environments and for industrial applications. Can go through the roughest conditions out there. Measures temperature, DC voltage and 4-20mA. The **U-DT-1** data transporter is only compatible with the PRO version of the HOB0 software (**BHW-PRO-CD**).

ITEM	DESCRIPTION	PRICE
UX120-006M	Indoor data logger.	247.80 \$
U12-008	Indoor/outdoor data logger.	443.80 \$
TMC1-HD	Air, water and soil T° sensor / 1' cable.	63.00 \$
TMC6-HE	Air, water and soil T° sensor / 6' cable.	70.00 \$
TMC20-HD	Air, water and soil T° sensor / 20' cable.	78.40 \$
TMC50-HD	Air, water and soil T° sensor / 50' cable.	88.20 \$
TMC6-HC	Air, water & soil T° stain. steel sensor / 6' cable.	154.00 \$
TEL-7001	Co2 sensor.	1 009.40 \$
CABLE-4-20MA	4-20mA cable.	44.80 \$
CABLE-2.5-STE	2.5 stereo cable voltage DC (0 to 2.5 VDC).	18.20 \$
CABLE-USMB	USB cable.	18.20 \$
U-DT-1	HOB0 data transporter, 4 mb.	499.80 \$
BHW-PRO-CD	Windows/MAC software, PRO version.	176.40 \$

## Heron water temperature & conductivity probes

The water temperature and conductivity probes from Heron are high fidelity products that will satisfy your needs for field applications. The **Dipper-Temp** is ideal for profiling temperature and static water levels in wells, boreholes, standpipes, lakes and rivers. The kynar jacketed measuring tape model allows for temperature profiling up to 110°C; the polyethylene jacketed measuring tape model allows for lower temperature profiling up to 80°C. The **Conductivity Plus** enables accurate measurements of conductivity, T° & water level, results are shown on a LCD display. Three-year warranty.



ITEM	CABLE	PROBE	MATERIAL	PRICE
CPLUS-30	30 m	0.875" x 5.5"	Polyethylene	1 224.00 \$
CPLUS-60	60 m	0.875" x 5.5"	Polyethylene	1 344.00 \$
CPLUS-100	100 m	0.875" x 5.5"	Polyethylene	1 504.00 \$
D-TEMP80-30	30 m	0.625" x 8.7"	Polyethylene	1 124.00 \$
D-TEMP80-60	60 m	0.625" x 8.7"	Polyethylene	1 244.00 \$
D-TEMP80-100	100 m	0.625" x 8.7"	Polyethylene	1 404.00 \$
D-TEMP80-150	150 m	0.625" x 8.7"	Polyethylene	1 704.00 \$
D-TEMP110-30	30 m	0.625" x 8.7"	Kynar	1 324.00 \$
D-TEMP110-60	60 m	0.625" x 8.7"	Kynar	1 504.00 \$
D-TEMP110-100	100 m	0.625" x 8.7"	Kynar	1 724.00 \$
D-TEMP110-150	150 m	0.625" x 8.7"	Kynar	2 144.00 \$



UX120-006M



U12-008



U-DT-1



BHW-PRO-CD



TMC20-HD  
TMC50-HD



TMC6-HE



TMC1-HD

## YSI ProODO oxygen meter

- Waterproof.
- Battery lasts 80 hours.
- Save up to 5000 readings.
- Display oxygen level, T° and barometric pressure.
- 3-year warranty on device, 2-year on cable and probe.
- Cable available from 4 to 20 meters, specify the needed length.
- USB 2.0 plug allowing data export toward a compatible software.



603075



603074

**RANGES**  
**Dissolved oxygen (% saturation):** 0 to 500%  
**Dissolved oxygen (mg/L):** 0 to 50 mg/L  
**Temperature:** -5° to 70°C  
**Barometric pressure:** 375 to 825 mmHg



ITEM	DESCRIPTION	PRICE
626281	ProODO meter w/ probe, 4m cable and carrying case.	2 360.00 \$
6262	ProODO meter only.	1 159.98 \$
62504	4-meter cable with ODO probe.	1 079.98 \$
625010	10-meter cable with ODO probe.	1 199.98 \$
625020	20-meter cable with ODO probe.	1 295.98 \$
6263	Replacement sensing element.	159.98 \$
603069	Belt clip.	47.02 \$
603075	Soft sided carrying case for oxygen meter.	199.98 \$
603074	Hard sided carrying case for oxygen meter.	455.98 \$

## YSI Professional Plus multiparameter

- Waterproof.
- EPA certified.
- Updates via USB.
- Save up to 5000 readings.
- 3-year warranty on device, 2-year on cable and probe.
- USB 2.0 plug allowing data export toward a compatible software.
- Cable available from 1 to 30 meters. For dissolved oxygen, up to 100 meters, specify the needed length when ordering (4m by default).
- Compatible with several probes: dissolved oxygen, pH, conductivity, ORP, ammonium, nitrate, chlorine, salinity, total dissolved solids and barometric pressure.

ITEM	DESCRIPTION	PRICE
6050000	YSI professional plus multiparameter only.	1 952.00 \$
603190	Meter w/ 4m cable, pH probe & carrying case.	4 896.00 \$
603223	Meter w/ 4m cable, pH/ORP probe and carrying case.	5 216.00 \$
614C	4-meter cable for ISE/Temp.	415.98 \$
624C	4-meter cable for DO/Temp.	423.98 \$
634C	4-meter cable for COND/Temp.	527.98 \$
6114C	4-meter cable for ISE/ISE/Temp.	927.98 \$
6124C	4-meter cable for ISE/DO/Temp.	927.98 \$
6134C	4-meter cable for ISE/COND/Temp.	767.98 \$
6234C	4-meter cable for DO/COND/Temp.	991.98 \$
57904*	Quatro cable kit.	2 120.00 \$
605202	Galvanic DO probe (includes membrane kit).	287.98 \$
605203	Polarographic DO probe (includes membrane kit).	287.98 \$
605101	pH ISE probe.	279.98 \$
605102	ORP ISE probe.	327.98 \$
605103	pH/ORP combo ISE (not for use on dual ISE cables).	471.98 \$
605104	Ammonium ISE probe (fresh water only).	575.98 \$
605105	Chloride ISE probe (fresh water only).	575.98 \$
605106	Nitrate ISE probe (fresh water only).	575.98 \$
CAL4	pH / 4.01 solution	22.38 \$
CAL7	pH / 7.00 solution	22.38 \$
CAL10	pH / 10.00 solution	22.38 \$
3161	Conductivity solution 1000 us/cm (fresh water).	31.98 \$
3163	Conductivity solution 10,000 us/cm (brackish water).	33.58 \$
3169	Conductivity solution 50,000 us/cm (salt water).	33.58 \$
3682	Zobell ORP solution (125 ml).	52.78 \$
3841	Ammonium solution 1 mg/L (500 ml).	131.18 \$
3842	Ammonium solution 10 mg/L (500 ml).	131.18 \$
3843	Ammonium solution 100 mg/L (500 ml).	131.18 \$
3885	Nitrate solution 1 mg/L (500 ml).	131.18 \$
3886	Nitrate solution 10 mg/L (500 ml).	131.18 \$
3887	Nitrate solution 100 mg/L (500 ml).	131.18 \$
603075	Soft sided carrying case.	199.98 \$

**RANGES**  
**Dissolved oxygen (% saturation):** 0 to 500%  
**Dissolved oxygen (mg/L):** 0 to 50 mg/L  
**Temperature:** -5° to 100°C  
**Conductivity:** 0 to 200 mS/cm  
**Salinity:** 0 to 70 ppt  
**pH:** 0 to 14 units  
**ORP:** -1999 to +1999 mV  
**Ammonium:** 0 to 200 mg/L-N  
 0° to 30°C  
**Nitrate:** 0 to 200 mg/L-N  
 0° to 30°C  
**Chlorine:** 0 to 1000 mg/L  
 0° to 40°C  
**Total Dissolved Solids:** 0 to 100 g/L  
**Barometric pressure:** 375 to 825 mmHg



(\*) The Quatro cable holds 4 user-replaceable Professional Series sensors for temperature/conductivity, D.O. and your choice of any two ISEs (pH, ORP, ammonium, nitrate, or chloride). Ammonia (NH<sub>3</sub>) can be measured if ammonium (NH<sub>4</sub>) and pH sensor is installed. Kit does not include D.O. and ISE probes.

# Instrumentation

## YSI ProDSS multiparameter

The ProDSS Portable Digital Sampling System is designed for use in demanding field applications such as surface water, groundwater and aquaculture. The rugged and reliable ProDSS allows for measurement of up to 17 parameters. The ProDSS features user-replaceable digital smart sensors that are automatically recognized by the instrument when connected. A backlit color display, large memory, convenient calibration procedures, rechargeable battery and powerful PC data management program (KorDSS) make the ProDSS user friendly for your field applications. Cable lengths available between 1 and 100 meters (specify the length when ordering). GPS for ProDSS with a large range of probes and cable lengths available in option.

Three-year warranty on the multiparameter / two-year on the cables.



	RANGE
Dissolved oxygen (% saturation):	0 to 500%
Dissolved oxygen (mg/L):	0 to 50 mg/L
Temperature:	-5° to 70°C
Conductivity:	0 to 200 mS/cm
pH:	0 to 14 units
Barometric pressure:	375 to 825 mmHg
Salinity:	0 to 70 ppt
Ammonium:	0 to 200 mg/L NH4-N
Chloride:	0 to 18,000 mg/L
Nitrate:	0 to 200 mg/L NO3-N

ITEM	DESCRIPTION	PRICE
626870-1	ProDSS meter (without GPS).	2 560.00 \$
626870-2	ProDSS meter (with GPS).	3 360.00 \$
626909-1	1m cable and 4-sensor ports for probe.	2 752.00 \$
626909-4	4m cable and 4-sensor ports for probe.	2 832.00 \$
626909-10	10m cable and 4-sensor ports for probe.	2 912.00 \$
626909-50	50m cable and 4-sensor ports for probe.	3 568.00 \$
626909-100	100m cable and 4-sensor ports for probe.	4 368.00 \$
626910-1*	1m cable and 4-sensor ports for probe.	3 952.00 \$
626910-4*	4m cable and 4-sensor ports for probe.	4 032.00 \$
626910-10*	10m cable and 4-sensor ports for probe.	4 112.00 \$
626911-50*	50m cable and 4-sensor ports for probe.	4 768.00 \$
626911-100*	100m cable and 4-sensor ports for probe.	5 568.00 \$
626900	Optical dissolved oxygen probe.	1 599.98 \$
626901	Turbidity probe.	1 760.00 \$
626902	Conductivity and temperature probe.	1 119.98 \$
626903	pH probe with module.	719.98 \$
626904	pH/ORP probe with module.	919.98 \$
626905	Nitrate probe with module.	919.98 \$
626906	Ammonium probe with module.	919.98 \$
626907	Chloride probe with module.	919.98 \$
626963	Replacement module for pH.	271.98 \$
626964	Replacement module for pH/ORP.	399.98 \$
626965	Replacement module for nitrate.	431.98 \$
626966	Replacement module for ammonium.	431.98 \$
626967	Replacement module for chloride.	431.98 \$

(\* Includes a depth sensor.

## HACH portable turbidimeter

For quality performances on the field like you would get in a laboratory. Reliable and easy-to-use, this turbidimeter is sold with a carrying case, 4 AA-type batteries and more. Weighs roughly 1 lb. One-year warranty. **Range of 0 to 1000 NTU.**



ITEM	DESCRIPTION	PRICE
2100Q	Hach turbidimeter with carrying case.	2 175.00 \$

## LaMotte turbidimeter

The LaMotte turbidimeter is the ideal product if you're looking for laboratory level efficiency, while remaining extremely compact for a turbidimeter. All readings are determined with a signal treatment in 2 seconds.



<b>Range:</b>	0 - 4000 NTU / FNU
<b>Resolution:</b>	0.01 / 0.1 / 1
<b>Accuracy:</b>	± 2-3%

ITEM	DESCRIPTION	PRICE
PEN-1970	2020WE turbidimeter kit (meets EPA 180.1).	1 566.38 \$
PEN-1970-ISO	2020WI turbidimeter kit (meets ISO 7027).	1 566.38 \$
PEN-LM1910CD	SmartLink 3 program.	110.38 \$
0290-6	Test tubes with caps. (x6)	44.62 \$

## Turbidimeter with submersible sensor

The high-quality Global Water turbidimeter is an effective instrument sold with a submersible sensor. This device is factory calibrated and does not need another calibration for the next 6-12 months.

25-foot cable included with the turbidimeter and its sensor. Optional 500-foot long cable (on demand) and carrying case also available.



<b>Range:</b>	0 to 50 NTU 0 to 1000 NTU
<b>Resolution:</b>	12 bit
<b>Accuracy:</b>	± 1% of full scale
<b>Power supply:</b>	10 - 36 VDC (sensor) 9 VDC (turbidimeter)
<b>Operating T°:</b>	-10° to 50°C (sensor) 0 to 50°C (turbidimeter)
<b>Weight:</b>	1 lb (sensor) 2 lbs (turbidimeter)



ITEM	DESCRIPTION	PRICE
WQ770-B	Turbidimeter with sensor and 25-ft cable.	2 873.60 \$
WQ730	Turbidity sensor w/ 25-ft cable, 4-20 mA out.	2 010.00 \$
WQ-00-609	Carrying case for WQ770-B.	84.00 \$

## Professional multiparameter

The **HI-98194** is a waterproof portable logging multiparameter water meter that monitors up to 11 different water quality parameters (pH, mV, ORP, EC, TDS, resistivity, salinity, seawater, dissolved oxygen, atmospheric pressure and temperature). The multiparameter probe transmits readings digitally to the meter, where data points can be displayed and logged. The instrument is shipped with a multiparameter probe (**HI-7698194**) that includes pH/ORP, EC and DO sensors. The complete water quality meter is simple to setup. The IP68 graded probe can stay in the water for as long as you want, if you wish so.

The multiparameter meter is enclosed in an IP67 rated waterproof casing and can withstand immersion in water at a depth of 1m for up to 30 minutes. The probe features an IP68 rating for continuous immersion in water. The meter, probe, and all accessories are supplied in a rugged carrying case designed to provide years of use. The inside compartment of the carrying case is thermoformed to securely hold and protect all of the components.

The HI-98194 kit with the carrying case includes the multiparameter probe (HI-7698194/4), pH/ORP probe (HI-7698194-1), electrical conductivity probe (HI-7698194-3), dissolved oxygen probe (HI-7698194-2), quick calibration solution (HI-9828-25), probe maintenance kit, calibration beaker, PC software, micro USB cable, quality certificate and instruction manual for the device.



### ADVANCED TECHNOLOGY

- Display up to 11 parameters.
- Fast pH and conductivity calibration with unique calibration solution.
- Rugged submersible probe with available length cable of 4, 10 and 20-meter long.
- Automatic pH electrode / ORP and security measure system recognition, which instantly eliminates outliers.

### PERFORMANCE

- Track measurement by identification key.
- Good Laboratory Practice feature with the last 5 calibrations recorded.
- Log-on-demand and automatic logging (up to 45,000 samples for PC transfer)
- Multilingual display with backlight, clear text and graphic representation for the measures.

### COMFORT

- USB for PC connectivity.
- Quick Calibration feature.
- Can display logged data as graphs.
- iButton® with a unique ID can be installed at various sampling sites (5 included).

### SAVING

- All sensors are field replaceable.
- Powered by rechargeable batteries (included).

SPECIFICATIONS		HI-98194
pH	Range	0.00 to 14.00 pH
	Resolution	0.01 pH
	Accuracy	±0.02 pH
pH of mV input	Range	±600.0 mV
	Resolution	0.1 mV
	Accuracy	±0.5 mV
ORP	Range	±2000.0 mV
	Resolution	0.1 mV
	Accuracy	±1.0 mV
Dissolved oxygen	Range	0.0 to 500.0% / 0.00 to 50.00 mg/L
	Resolution	0.1% / 0.01 mg/L
	Accuracy	from ±1.5% to ±3% of reading depending on the range
Conductivity	Range	0.000 to 200.000 mS/cm; 200 to 400 mS/cm
	Resolution	1 µS/cm; 0.001 mS/cm; 0.01 mS/cm; 0.1 mS/cm; 1 mS/cm
	Accuracy	±1% of reading or ±1 µS/cm (whichever is greater)
Resistivity	Range	0 to 999,999 Ω cm; 0 to 1000.0 k Ω cm; 0 to 1,0000 M Ω cm
	Resolution	Dependent on resistivity reading
	Accuracy	±1% of reading or ±1 µS/cm (whichever is greater)
TDS	Range	0 to 400.0 l/g ppt (the max. value depends on the TDS factor)
	Resolution	1 mg/L (ppm); 0.001g/L (ppt); 0.01g/L (ppt); 0.1g/L (ppt); 1g/L (ppt)
	Accuracy	±1% of reading or ±1 mg/L
Salinity	Range	0.00 to 70.00 PSU (Extended practical salinity scale; 1 PSU = 1 g/L)
	Resolution	0.01 PSU
	Accuracy	±2% of reading or ±0.01 PSU (whichever is greater)
Seawater specific gravity	Range	0.0 to 50.0 st, s0, s15
	Resolution	0.1 st, s0, s15
	Accuracy	±1 st, s0, s15
Atmospheric pressure	Range	450 to 850 mmHg; 17.72 to 33.46 inHg; 600.0 to 1133.2 mbar; 8.702 to 16.436 psi; 0.5921 to 1.1184 atm; 60.00 to 113.32 kPa
	Resolution	0.1 mmHg; 0.01 inHg; 0.1 mbar; 0.001 psi; 0.0001 atm; 0.01 kPa
	Accuracy	±3 mmHg within ±15°C from the temperature during calibration
Temp°	Range	-5.0° to 55.0°C; 23.0° to 131.0°F
	Resolution	0.01°C
	Accuracy	±0.15°C

Calibration	Automatic for pH, ORP, conductivity, oxygen and atmospheric pressure
T° compensation	Automatic from -5 to 55°C
Logging memory	Up to 45,000 measures (for all parameters)
Logging interval	from 1 second to 3 hours
Computer interface	USB cable HI-920015 (with compatible Windows® software included)
Waterproof protection	meter IP67, probe IP68
Power supply	4x 1.5V alkaline / up to 360 hours of continuous use



ITEM	DESCRIPTION	PRICE
HI-98194/4	Multiparameter kit with 4-meter cable.	1 650.00 \$
HI-98194/10	Multiparameter kit with 10-meter cable.	1 750.00 \$
HI-98194/20	Multiparameter kit with 20-meter cable.	1 850.00 \$
HI-98194/40	Multiparameter kit with 40-meter cable.	2 150.00 \$

### Accessories / replacement parts:

HI-7698194/4	Replacement multiparameter probe (4m cable).	1 200.00 \$
HI-7698194/10	Replacement multiparameter probe (10m cable).	1 300.00 \$
HI-7698194/20	Replacement multiparameter probe (20m cable).	1 400.00 \$
HI-7698194-0	Replacement probe for pH.	208.00 \$
HI-7698194-1	Replacement probe for ORP.	289.00 \$
HI-7698194-2	Replacement probe for DO.	289.00 \$
HI-7698194-3	Replacement probe for conductivity.	289.00 \$
HI-9828-25	Quick calibration solution 500mL.	52.00 \$

# Instrumentation

## pH / Co2 controller

Just plug a 115V solenoid valve (not included) into the socket supplied for dosing and your Co2 supply to the solenoid. The included pH electrode measures 0 to 14 pH ( $\pm 0.2$  pH accuracy) and has manual 2-point calibration.

Controller has a set point range of 5.5 to 9.5 pH and a visual LED alarm that activates when the reading goes above the set point.

Uses a 115V/60 Hz to 12VDC adapter (included) and measures 3 1/4" x 5 1/2" x 1 1/2".

Co2 regulator **MA957** available as an accessory for the Smart controller (sold separately). Two-year warranty on the base unit, 6 months on the probe.



MC122



MA957

ITEM	DESCRIPTION	PRICE
MC122	pH / Co2 Smart controller	221.42 \$
MA957	Co2 regulator and bubble counter	175.00 \$
SM911	Replacement probe pH	70.54 \$
CAL7	Calibration solution pH 7.0	22.38 \$
CAL4	Calibration solution pH 4.01	22.38 \$
CAL10	Calibration solution pH 10.0	22.38 \$

## Co2 regulators

The **UW1405-CD** is the regular model, while the **CRF198-CD** includes a heating element that operates at 110 volts with an outlet connection of 5/8" F/NPT.

	UW1405-CD	CRF198-CD
<b>Gauge:</b>	--	2" - 4000 PSI
<b>Heating:</b>	No	Yes (110 volts)
<b>Flowmeter:</b>	0 - 50 SCFH	0 - 60 SCFH
<b>Inlet connection:</b>	CGA-320	CGA-320
<b>Outlet connection:</b>	9/16" F/NPT	5/8" F/NPT
<b>Max inlet pressure:</b>	2.5 bar	3000 PSI
<b>Outlet pressure:</b>	--	50 PSI

UW1405-CD



CRF198-CD

ITEM	DESCRIPTION	PRICE
UW1405-CD	Co2 regulator, outlet of 9/16" F/NPT, non-heating.	120.00 \$
CRF198-CD	Co2 regulator, outlet of 5/8" F/NPT, heating.	661.43 \$

## ORP controller

Plug an ozone generator into this Smart controller's power socket, and it will dose until it determines that the ORP set point is reached. Simply dial the set point from 0 to 600 mV.

The controller will automatically switch on again if the ORP value falls above or below (user selected) the set point, and a visual LED alarm will activate while the reading is low. Controller can measure  $\pm 1,000$  mV ( $\pm 5$  mV accuracy). ORP electrode and 115V/60 Hz to 12VDC adapter are included. Two-year warranty on the base unit, 6 months on the probe. Ship weight is 3 lbs.



MC510

ITEM	DESCRIPTION	PRICE
MC510	ORP controller	249.42 \$
SM921	Replacement probe ORP	75.66 \$
7021	Calibration solution ORP 240 mV	45.42 \$
7022	Calibration solution ORP 470 mV	42.06 \$

## Wireless alarm system

Aquamerik now offers wireless alarm systems for your various applications. No wiring is needed between sensors (level float, pressure sensor, temperature controller, water leak sensor, etc) and the main management panel for alarms (max of 100m). The alarm panel communicates with the operator directly via a standard phone line or a cellphone when service is available (subscription required) in case of a problem. Works with all NO / NC sensors.

Two remote control units (included) allows you to activate or disable the alarm features without having to reach the keyboard. Up to 99 zones can be programmed for this specific alarm. The internal battery can last up to 8 hours straight in case of a power failure. An application for iPhone and Android is available for free if you want to follow or modify in real time the operation of your equipment. One feature allows you to activate or disable the alarm mode automatically. We also offer a pre-programmation zone feature in order to facilitate the on-site start up process.



KR-NIV



KR-8218



KR-TR



KR-EAU

ITEM	DESCRIPTION	PRICE
KR-8218	Wireless alarm panel, 99 zones, GSM + PTSN.	629.00 \$
KR-NIV	Wireless water level sensor (24" stem).	169.80 \$
KR-EAU	Wireless water leak floor sensor.	113.25 \$
KR-TR	Wireless transmitter for various NO/NC sensors.	132.50 \$
KR-PRO	Wireless pre-programmation zones at Aquamerik.	80.00 \$

## Auto dialer alarm systems

These alarms pay for themselves by preventing disasters and reducing man-hours. Built-in microphone monitors sound, call at any time and listen in from a remote location. Units call you when there is a problem. Use your regular phone line (separate line not needed). If you want more information about how these alarms work, please contact us.

The **AT5** Remote Temperature Probe measures water or air temperature up to 50' from unit. The **A3** Remote Temperature Sensor monitors room temperature. Both will trigger a dial-out if temperature exceed high or low set limits.



A-2



AT5



A2C

ITEM	DESCRIPTION	PRICE
A-2	Auto dialer alarm system, max of 4 zones.	796.30 \$
A-200	Auto dialer alarm system, max of 8 zones.	1 197.90 \$
A2B*	Water detection sensor.	188.94 \$
A2C*	Magnetic reed switch.	23.50 \$
AT5	Remote temperature probe.	131.02 \$
A3*	Remote temperature sensor.	50.38 \$
A2S	Smoke detector, 115 VAC (85 dB).	131.02 \$
A3B*	Passive infrared motion detector.	179.50 \$
A3C*	Humidistat.	68.94 \$

(\*) Wires or cables not included. Use 18-22 gauge wire.

## PT4 RIU3 monitor & control system

The PT4 RIU3 (Remote Interface Unit) offers a host of features suited to our customers' detailed requirements for continuous monitoring & control of water parameters. The RIU3 functions as either a stand-alone field mounted transmitter/controller, or can be daisy chained to create a multi-linked network connection, supporting up to 40 units. An unlimited amount of multi-linked network connections can be made allowing for a scalable system from small hatchery operations to large RAS systems. Users can collect, manipulate and control all of their data via the Point Four RIU3 Controller, Point Four LC Touch Controller or using the Point Four Sync HMI Software (windows based).

The RIU3 will accept multiple input types (4-20mA / 0 -5 V / Modbus RS485) and contains 2 SPDT 4-amp relays which can be setup for up to 6 control blocks. Control blocks are configured directly via the keypad, or through a PC using a computer connection cable; allowing users to setup local control, configure alarm conditions or even perform PID function. A key feature of the RIU3 is tank side probe calibration, which is easily performed using the weatherproof 4-button keypad. Probe calibration can now be done by just one operator, allowing the user to service the probe and adjust values all at the same probe location.

**\*\* Please contact us if you want a complete quote for this specific product. \*\***

During operation	
Power supply:	12 to 24 volts.
Current requirements:	120 mA.
Operating temperature:	-5°C to 60°C.
Operating humidity:	5% to 85% (up to 40°C)
Signal input/output:	4-20mA / 0-5V / Modbus RS485 -- 2 rel. SPDT 4 amp.
Dimensions:	4.9" x 5.7" x 3"

ITEM	DESCRIPTION	PRICE
1SSS6011	RIU3 with DO/TEMP probe 7m, power adapter.	1 875.20 \$
1SSS6011B	RIU3 with DO/TEMP probe 15m, power adapter.	2 024.00 \$
1SSS6011C	RIU3 with DO/TEMP probe 25m, power adapter.	2 105.60 \$
1SSS6012	RIU3 with DO probe %SAT 3m, power adapter.	1 928.00 \$
1SSS6013	RIU3 with DO probe MG/L 3m, power adapter.	1 932.80 \$
1SSS6014	RIU3 with RDO OPTICAL DO probe 10m, pwr. ad.	5 024.00 \$
1SSS6016	RIU3 with TGP probe 5m, power adapter.	1 936.00 \$
1SSS6017	RIU3 with ORP probe 6m, power adapter.	2 099.20 \$
1SSS6018	RIU3 with pH 800 probe 20', power adapter.	1 918.40 \$
1SSS6019	RIU3 with salinity measure 10 CELL TEMP.	4 083.20 \$

\* This monitor is also available on a PVC panel or with an enclosure. (available with solenoid valve(s) and flow meter(s)).

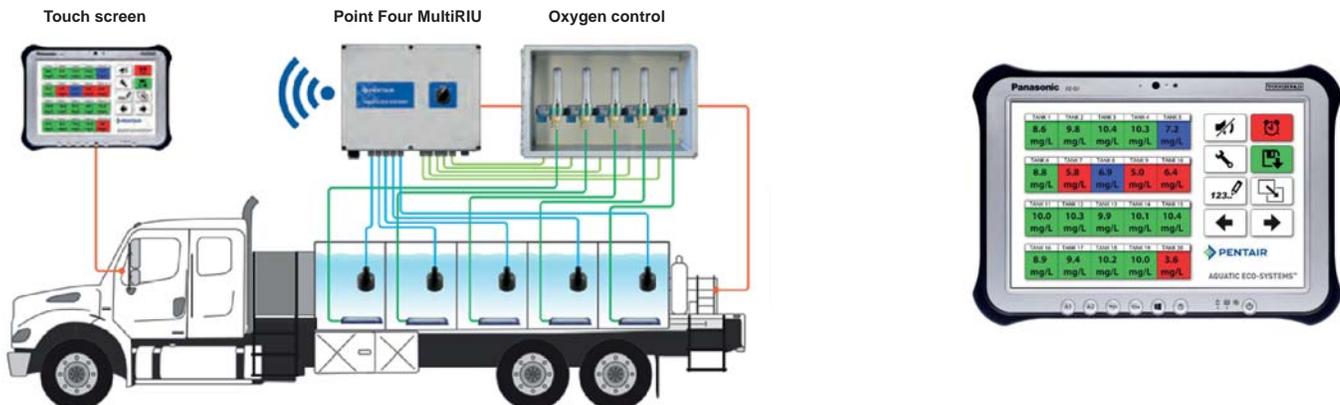


## PT4 TS monitor & control transport system

The PT4 TS (Transport System) utilizes the Point Four MultiRIU, which has been specifically designed for transportation. The MultiRIU provides an input connection for 5 DO/Temp probes to monitor oxygen and temperature during live fish transport and an output for 5 relays to actuate a solenoid valve/flowmeter assembly to automatically dose oxygen, based on specific values set by the end user.

Complete functionality of the MultiRIU is quickly and easily accessed via the TS System touch screen, view data in the cab of the truck while transporting or walk around the vehicle with the tablet to view and perform system inspections.

**\*\* Contact us if you want more information about this product. \*\***



# Instrumentation

## Probes (pH, ORP, conductivity, oxygen, temperature)

### HI-10xx & HI-20xx

- 1/2" NPT for inline installation.
- Double junction.



### HI-1090T

With T-type connector, PG 13.5" threaded screw head.

### HI-29xx

The integrated miniaturized amplifier resolves most of the problems associated with high impedance signals.



### D033M & D0335VH, "Stat-Probe"

Oxygen probes with galvanic cell, self-polarizing and built-in two-wire 4-20 mA transmitter. **D033M** measures the mg/L and **D0335VH** measures the % of saturation. Shipped with a 50-mL bottle of type 3 electrolyte.



HI-1001



HI-3002

### HI-3xxx

4-Ring conductivity flow-thru probe with automatic temperature compensation for industrial applications. Standard 1/2" external thread for inline installation (Conmet excepted).



HI-2910B/5



### D0243C & D0223M, "Commander" probe

Oxygen probes with galvanic cell, self-polarizing and self temperature-compensating. **D0243C** measures the mg/L, % of saturation, oxygen and temperature. **D0223M** measures the mg/L (ppm). Shipped with a 50-mL bottle of type 3 electrolyte.



### RDOPRO

EPA approved, this probe measures dissolved oxygen and gives accurate results. No interference against hydrogen sulfide, chloride, ammonium and others. Cap for probe included.

ITEM	TYPE	RANGE	OPERAT. T°	JUNCTION	MAX. PRESS.	CABLE	PRICE
HI-1001	pH	0 - 14 pH	-5 to 80°C	Teflon	6 bars (87 PSI)	3m BNC	206.00 \$
HI-1002/5	pH	0 - 14 pH	-5 to 80°C	Teflon	6 bars (87 PSI)	5m BNC	245.00 \$
HI-1003/3	pH (differential input)	0 - 14 pH	-5 to 80°C	Teflon	6 bars (87 PSI)	3m BNC	255.00 \$
HI-1003/5	pH (differential input)	0 - 14 pH	-5 to 80°C	Teflon	6 bars (87 PSI)	5m BNC	283.00 \$
HI-1090T	pH	0 - 14 pH	-5 to 95°C	Teflon	3 bars (43.5 PSI)	T-type	208.00 \$
HI-1280	pH (for HI 98111)	0 - 13 pH	0 to 70°C	Ceramic	0.1 bar (1.45 PSI)	None	73.00 \$
HI-1290	pH (for HI 98112)	0 - 13 pH	0 to 70°C	Ceramic	0.2 bar (2.9 PSI)	None	76.00 \$
HI-1332B	pH	0 - 13 pH	0 to 70°C	Ceramic	0.1 bar (1.45 PSI)	1m wire	133.00 \$
HI-2910B/5	pH	0 - 14 pH	-5 to 70°C	Cloth	3 bars (43.5 PSI)	5m BNC	177.00 \$
HI-2001	ORP	± 2000 mV	-5 to 80°C	Teflon	6 bars (87 PSI)	3m BNC	229.00 \$
HI-2002/3	ORP	± 2000 mV	-5 to 80°C	Teflon	6 bars (87 PSI)	3m BNC	253.00 \$
HI-2002/5	ORP	± 2000 mV	-5 to 80°C	Teflon	6 bars (87 PSI)	5m BNC	278.00 \$
HI-2003/3	ORP	± 2000 mV	-5 to 80°C	Teflon	6 bars (87 PSI)	3m BNC	236.00 \$
HI-2003/5	ORP	± 2000 mV	-5 to 80°C	Teflon	6 bars (87 PSI)	5m BNC	273.00 \$
HI-2930B/5	ORP	± 2000 mV	-5 to 80°C	Cloth	3 bars (43.5 PSI)	5m BNC	206.00 \$
HI-3001	Conductivity	--	0 to 80°C	Stainless steel	6 bars (87 PSI)	3m wire	262.00 \$
HI-3002	Conductivity	--	0 to 80°C	Stainless steel	6 bars (87 PSI)	3m wire	272.00 \$
HI-3011	Conductivity	--	0 to 80°C	Stainless steel	6 bars (87 PSI)	3m wire	283.00 \$
D0243C-7	Oxygen / T° (Type 3)	2.5 - 5 mV / ppm	0 to 40°C	--	--	7m wire	799.65 \$
D0243C-10	Oxygen / T° (Type 3)	2.5 - 5 mV / ppm	0 to 40°C	--	--	10m wire	980.94 \$
D0243C-15	Oxygen / T° (Type 3)	2.5 - 5 mV / ppm	0 to 40°C	--	--	15m wire	1 061.45 \$
D0243C-25	Oxygen / T° (Type 3)	2.5 - 5 mV / ppm	0 to 40°C	--	--	25m wire	1 170.19 \$
D0223M	Oxygen (Type 3)	2.5 - 5 mV / ppm	0 to 40°C	--	--	3m wire	767.21 \$
D033M	Oxygen (Type 3)	0-10 mg/L	0 to 50°C	--	--	7m wire	1 285.40 \$
D0335VH	Oxygen (Type 3)	0 - 400% saturation	0 to 50°C	--	--	7m wire	1 214.35 \$
RDOPRO-10	Oxygen	0 - 50 mg/L	0 to 50°C	--	--	10m wire	2 400.20 \$
RDOPRO-20	Oxygen	0 - 50 mg/L	0 to 50°C	--	--	20m wire	3 673.89 \$
RDOPRO-40	Oxygen	0 - 50 mg/L	0 to 50°C	--	--	40m wire	3 417.05 \$
10XPA016	Electrolyte bottle type 1 for probes, 50-mL format.						8.75 \$
10XPA015	Electrolyte bottle type 1 for probes, 250-mL format.						17.51 \$
10XPA014	Electrolyte bottle type 1 for probes, 1-L format.						38.76 \$
10XPA018	Electrolyte bottle type 2 for probes, 250-mL format.						17.36 \$
10XSS130	Electrolyte bottle type 3 for probes, 50-mL format.						4.20 \$
10XSS131	Electrolyte bottle type 3 for probes, 250-mL format.						39.57 \$
10XSS134	Electrolyte bottle type 3 for probes, 1-L format.						87.48 \$
10XPA057	Maintenance kit for "Commander" probe: kit of 10 membranes with o-rings (2x); Anode type 3 (2x); electrolyte type 3 bottle / 1-liter format (1x); membrane tool (1x).						277.86 \$
10XPA047	Maintenance kit for "Stat-Probe": kit of 10 membranes with o-rings (2x); Anode type 3 (2x); electrolyte type 3 bottle / 1-liter format (1x); membrane tool (1x).						277.86 \$



HI-766C  
HI-766D



HI-766F



HI-766TV1

ITEM	TYPE	MAX. T°	RESPONSE TIME	APPLICATIONS	PROBE	CABLE	PRICE
HI-766C	Thermocouple (K-type)	900°C	15 sec.	Semi-solids	Stainless steel	1m wire.	99.00 \$
HI-766C1	Thermocouple (K-type)	300°C	4 sec.	Semi-solids	Stainless steel	1m wire.	99.00 \$
HI-766D	Thermocouple (K-type)	300°C	20 sec.	Air / Gas	Stainless steel	1m wire.	115.00 \$
HI-766F	Thermocouple (K-type)	1100°C	4 sec.	High temperatures	316 SS	1m wire.	56.00 \$
HI-766TV1	Thermocouple (K-type)	200°C	8 sec.	Pipes, hoses	Stainless steel	1m wire.	85.00 \$

## Calibration & cleaning solutions

A device's lifespan is closely related to its maintenance. Too often, expensive and sophisticated equipments don't give their best results because of rare regular maintenance of sensors. To maximize their lifespan, Aquamerik offers a wide range of solutions for calibration and maintenance.

Calibrate your instruments for water analysis with the appropriate AQUAMERIK calibration solutions and obtain really accurate results. Plan a heated transportation method during winter or order your solutions during summer. Several sizes available (\*).

### Cleaning solutions

Clean the liquid junction of your electrodes once a day or at least once a week to prevent clogging and to maintain accuracy.

### Dissolved oxygen solutions

To ensure that your oxygen meter is working properly. The meter must indicate a number near zero when inside the solution.

### Storage solutions

For keeping your electrodes ready to be used and avoid the sensitive membrane to dehydrate.

ITEM	DESCRIPTION	PRICE
HI-7001L	Calibration solution pH 1.68 (500 mL)	41.00 \$
HI-7004L	Calibration solution pH 4.01 (500 mL)	19.00 \$
HI-7004-1L	Calibration solution pH 4.01 (1 L)	26.00 \$
HI-7004-1G	Calibration solution pH 4.01 (1 Gal)	69.00 \$
HI-7006-1L	Calibration solution pH 6.86 (1 L)	26.00 \$
HI-7006-1G	Calibration solution pH 6.86 (1 Gal)	69.00 \$
HI-7007L	Calibration solution pH 7.01 (500 mL)	19.00 \$
HI-7007-1L	Calibration solution pH 7.01 (1 L)	26.00 \$
HI-7007-1G	Calibration solution pH 7.01 (1 Gal)	69.00 \$
HI-7009L	Calibration solution pH 9.18 (500 mL)	19.00 \$
HI-7009-1L	Calibration solution pH 9.18 (1 L)	26.00 \$
HI-7009-1G	Calibration solution pH 9.18 (1 Gal)	69.00 \$
HI-7010L	Calibration solution pH 10.01 (500 mL)	19.00 \$
HI-7010-1L	Calibration solution pH 10.01 (1 L)	26.00 \$
HI-7010-1G	Calibration solution pH 10.01 (1 Gal)	69.00 \$
	<b>pH</b>	
HI-7033L	Conductivity solution EC 84 µS/cm (500 mL)	19.00 \$
HI-7031L	Conductivity solution EC 1413 µS/cm (500 mL)	19.00 \$
HI-7039L	Conductivity solution EC 5000 µS/cm (500 mL)	31.00 \$
HI-7030L	Conductivity solution EC 12,880 µS/cm (500 mL)	19.00 \$
HI-7034L	Conductivity solution EC 80,000 µS/cm (500 mL)	32.00 \$
HI-7035L	Conductivity solution EC 111,800 µS/cm (500 mL)	33.00 \$
	<b>CONDUCTIVITY</b>	
HI-7032L	Conductivity solution TDS 1382 ppm (mg/L) (500 mL)	19.00 \$
HI-70442L	Conductivity solution TDS 1500 ppm (mg/L) (500 mL)	19.00 \$
HI-7036L	Conductivity solution TDS 12.41 ppt (g/L) (500 mL)	32.00 \$
	<b>TOTAL DISSOLVED SOLIDS</b>	
HI-7087L	Sodium standard solution 0.23 g/L Na (500 mL)	44.00 \$
HI-7080L	Sodium standard solution 2.3 g/L Na (500 mL)	44.00 \$
HI-7086L	Sodium standard solution 23 g/L Na (500 mL)	44.00 \$
	<b>SODIUM</b>	
HI-7083L	Sodium chloride standard sol. 3.0 g/L NaCl (500 mL)	44.00 \$
HI-7088L	Sodium chloride standard sol. 5.84 g/L NaCl (500 mL)	44.00 \$
HI-7081L	Sodium chloride standard sol. 30 g/L NaCl (500 mL)	44.00 \$
	<b>SALINITY</b>	
HI-7020L	ORP test solution 200/275 mV (@ 25°C) (500 mL)	38.00 \$
HI-7021L	ORP test solution 240 mV (@ 25°C) (500 mL)	38.00 \$
HI-7022L	ORP test solution 470 mV (@ 25°C) (500 mL)	38.00 \$
HI-7091L	Reducing pretreatment solution (500 mL)	34.00 \$
HI-7092L	Oxidizing pretreatment solution (500 mL)	34.00 \$
	<b>OXIDATION POTENTIAL</b>	
HI-7040L	Zero oxygen solution for D.O. measurements (500 mL)	25.00 \$
HI-7041L	Electrolyte sol. for polarographic D.O. probes (500 mL)	92.00 \$
	<b>ZERO OXYGEN</b>	
HI-7061L	General purpose cleaning solution (500 mL)	19.00 \$
HI-7074L	Cleaning solution for organic substances (500 mL)	44.00 \$
HI-7077L	Cleaning solution for oil and fats (500 mL)	44.00 \$
HI-70670L	Cleaning solution for salt deposits (500 mL)	48.00 \$
HI-70671L	Cleaning solution for algae, fungi and bacteria (500 mL)	48.00 \$
C-H2O-4	100% deionized water 3.6 L format (1 Gal us)	10.40 \$
C-H2O-45	100% deionized water barrel format (204 L)	202.80 \$
	<b>CLEANING</b>	
HI-70300L	Electrode storage solution (500 mL)	19.00 \$
	<b>STORAGE</b>	



HI-7007



HI-7033



HI-7083



HI-7061



C-H2O-4

### \* OTHER SIZES AVAILABLE:

- **pH & EC solutions** available in 20 mL (HI-xxxP, 20 mL sachets x25), 230 mL (HI-xxxM), 500 mL (HI-xxxL), 1 liter (HI-xxx/1L), 1 US gallon (HI-xxx/1G) and FDA approved (HI-8xxx).
- **Salinity and TDS solutions** in 250 mL, 500 mL, 1 liter format and FDA approved.
- **ORP & storage solutions** in 250 mL, 500 mL format and FDA approved.
- **Zero oxygen solutions** in 30 mL, 250 mL and 500 mL.
- **Cleaning solutions** in 20 mL, 250 mL, 500 mL format and FDA approved.

# Instrumentation

## Waterra water level probes

Our water level probes **WS-2** (open reel case) are advanced products utilizing the most recent electronic technology. These sensors have been designed to offer to the user the best features available at an affordable price. They are made from black polyethylene and their lightweight and slim profile make them very portable. The 3/8-inch stainless steel tape with polyethylene coating is available in metric or imperial graduations (metric tapes are graduated to the nearest millimeter; imperial tapes are graduated to the nearest 1/100 of a foot).

The tape is manufactured with a probe connector at one end and a circuit board connector at the other. This allows the tape or the probe to be quickly and easily replaced should either become damaged. The faceplate has a water indication light LED display that illuminates when water is detected. The WS-2 ReelCase (**WS-2RC**) is a high quality meter and a rugged hardcase combine into a single unit, perfect for storage, transportation and operation on the field. Water level probes also available in lengths of 100 and 250 feet.



ITEM	DESCRIPTION	PRICE
WS-2-30-CR	Water level probe, 30 meters (closed reel)	475.00 \$
WS-2-30-OR	Water level probe, 30 meters (open reel)	475.00 \$
WS-2RC-30	ReelCase probe, 30 meters	P.O.R.
WS-2-50	Water level probe, 50 meters	535.00 \$
WS-2RC-50	ReelCase probe, 50 meters	P.O.R.
WS-2-75	Water level probe, 75 meters	625.00 \$
WS-2RC-75	ReelCase probe, 75 meters	P.O.R.
WS-2-100	Water level probe, 100 meters	750.00 \$
WS-2-200	Water level probe, 200 meters	1 175.00 \$
WS-2-300	Water level probe, 300 meters	1 575.00 \$
WS-2-500	Water level probe, 500 meters	2 775.00 \$

## Waterra oil / water interface probes

Our oil/water interface probes **HS-2** (open reel case) represent some of the most advanced technology available today for hydrocarbon product layer measurement. These devices utilize sophisticated ultrasonic sensors to help define the product layer.

The tough plastic reels protect the stainless steel tape from damage and dirt while the tape is stored on the reel. The 3/8-inch stainless steel tape with polyethylene coating is available in metric or imperial graduations (metric tapes are graduated to the nearest millimeter; imperial tapes are graduated to the nearest 1/100 of a foot). The tape is manufactured with a probe connector at one end and a circuit board connector at the other. This allows the tape or the probe to be quickly and easily replaced should either become damaged.

The faceplate has an ON/OFF membrane switch with an automatic power saving feature that will turn the unit off after three minutes of non-use. It also has a double indication light LED display that illuminates when water or hydrocarbons are detected. The loudest buzzer available was chosen for these probes to ensure that the units could be heard in the most noisy environments. Oil/water interface probes also available in lengths of 100 and 250 feet.



ITEM	DESCRIPTION	PRICE
HS-2-30-CR	Oil / water interf. probe, 30 meters (closed reel)	882.75 \$
HS-2-30-OR	Oil / water interf. probe, 30 meters (open reel)	882.75 \$
HS-2-50	Oil / water interface probe, 50 meters	1 025.00 \$
HS-2-75	Oil / water interface probe, 75 meters	1 158.25 \$
HS-2-100	Oil / water interface probe, 100 meters	1 260.00 \$
HS-2-200	Oil / water interface probe, 200 meters	P.O.R.
HS-2-300	Oil / water interface probe, 300 meters	P.O.R.
HS-2-500	Oil / water interface probe, 500 meters	P.O.R.

\* Also available in Kynar.

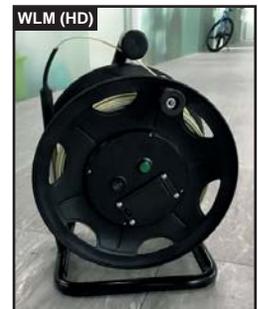
## Economical water level probes

Water level probes for occasional uses on the field. Available cable lengths: 30, 50 and 100-meter long (metric display only).

Complete with cable reel. Works with a 9-volts battery (included) with voltage indicator.

A sound alarm is triggered when the probe hits the water. Available in the regular version (with plastic reel) and Heavy Duty (HD) with metal reel.

ITEM	CABLE	PROBE (mm)	WARRANTY	PRICE
WLM-30	30 m	14 ø x 221	1 year	339.00 \$
WLM-50	50 m	14 ø x 221	1 year	399.00 \$
WLM-100	100 m	14 ø x 221	1 year	440.00 \$
WLM-30-HD	30 m	14 ø x 221	1 year	420.00 \$
WLM-50-HD	50 m	14 ø x 221	1 year	480.00 \$
WLM-100-HD	100 m	14 ø x 221	1 year	630.00 \$



## Heron oil / water interface probes

Safe within explosive environments when used with a grounding cable reel, it is possible to measure product layer as thin as 1/200 feet (1mm) that is floating on the surface water in a fast and effective way. The probe will report oil presence with a continuous sound alert and a constant LED light. It will also report water presence with an intermittent sound and a flashing light.

The hydrocarbon resistant Kynar jacketed, high tensile steel core tape is able to withstand hydrocarbons, solvents and other harsh contaminants. It is graduated in the imperial (foot/inch) and metric systems (meter/centimetre). Automatic shut-off after 10 minutes of non-use. One-year warranty on the probe and 5-year on the kit.



ITEM	CABLE	PROBE	WARRANTY	PRICE
OW-15	15 m	0.74" x 7.9"	5 years	954.00 \$
OW-30	30 m	0.74" x 7.9"	5 years	1 024.00 \$
OW-60	60 m	0.74" x 7.9"	5 years	1 204.00 \$
OW-100	100 m	0.74" x 7.9"	5 years	1 424.00 \$
OW-150	150 m	0.74" x 7.9"	5 years	1 844.00 \$
OW-200	200 m	0.74" x 7.9"	5 years	2 392.95 \$
OW-300	300 m	0.74" x 7.9"	5 years	2 896.95 \$
OW-SM-20	20 m	3/4" x 6.3"	5 years	944.00 \$

## Downhole inspection camera probe

The Heron Dipper-See Examiner is a robust and cost effective vertical downhole inspection camera. Designed with portability in mind, this self-contained unit is ideal for viewing in wells, drains, vertical shafts, open bodies of water, boreholes and narrow tubes over 25mm (1") in diameter. The versatile positioning arm, conveniently attached to the frame, offers an ergonomic solution for adjusting the monitor for viewing the High Definition display screen at different angles and lighting conditions.

The monitor conveniently houses all of the controls on the front of the panel. Record the video/audio on the SD card provided with the DVR, for easy transfer of video to another device. The camera probe can be easily removed. Accessories included: DVR (records video and audio feed), SC card, charger, 2 batteries (removable rechargeable lithium ion), microphone, and more.



ITEM	DESCRIPTION	PRICE
D-SEE-150M	Inspection camera probe, 150-meter tape.	P.O.R.
D-SEE-500F	Inspection camera probe, 500-foot tape.	P.O.R.

## Heron water level probes

The affordable price, durability and easy maintenance of these probes make it an ideal choice for water level applications.

**Dipper-T** is the high-end model which uses top quality materials, whereas **Skinny Dipper** is characterised with its tape and a narrower probe, for a simpler use when in less accessible places for operation.

**Dipper-T2**, just like **Little Dipper 2** (the compact version of the Dipper-T2), is capable of measuring both static and falling head levels. When the probe makes contact with water, a continuous sound and a LED light report its activation, allowing the most accurate measure possible (1/100").

The high quality polyethylene tape is strengthened with kevlar fibre, ensuring a non-corrosive product. It is graduated in a permanent way by a thermal process with imperial (foot/inch) and metric measurements (meter/centimetre). The submersible probe can resist leakage. The probe is being held to the tape by a flexible clip system to prevent seal tear between the tape and itself.

**Dipper-Tough**, thanks to the drawDown feature, is ideal for applications in groundwater where there is a high concentration of bacteria.

**Water Tape 2**, an economical probe, can measure static and drawDown levels in open bodies of water, wells, boreholes and standpipes.

One-year warranty on the probe (except for the Dipper-Tough model) and 5-year for the kit.



Water Tape 2 (WL2)

Skinny Dipper (WL-SD)

Dipper-T & T2 (WL-DT / WL-DT2)



Little Dipper 2 (WL-LD2)



Dipper-Tough (WL-TG)

ITEM	CABLE	PROBE	WARRANTY	PRICE
WL2-30	30 m	5/8" x 8.4"	5 years	614.00 \$
WL2-60	60 m	5/8" x 8.4"	5 years	694.00 \$
WL2-100	100 m	5/8" x 8.4"	5 years	814.00 \$
WL-SD-30	30 m	1/4" x 3.5"	5 years	624.00 \$
WL-SD-60	60 m	1/4" x 3.5"	5 years	704.00 \$
WL-SD-100	100 m	1/4" x 3.5"	5 years	824.00 \$
WL-LD2-15	15 m	5/8" x 5.25"	5 years	574.00 \$
WL-LD2-22	22 m	5/8" x 5.25"	5 years	604.00 \$
WL-LD2-30	30 m	5/8" x 5.25"	5 years	634.00 \$
WL-DT-30	30 m	5/8" x 8.4"	5 years	684.00 \$
WL-DT-60	60 m	5/8" x 8.4"	5 years	784.00 \$
WL-DT-100	100 m	5/8" x 8.4"	5 years	879.00 \$
WL-DT2-30	30 m	5/8" x 8.4"	5 years	684.00 \$
WL-DT2-60	60 m	5/8" x 8.4"	5 years	784.00 \$
WL-DT2-100	100 m	5/8" x 8.4"	5 years	924.00 \$
WL-TG-30	30 m	5/8" x 8.4"	5 years	774.00 \$
WL-TG-60	60 m	5/8" x 8.4"	5 years	914.00 \$
WL-TG-100	100 m	5/8" x 8.4"	5 years	1 094.00 \$

\* Other cable lengths available on demand.

# Instrumentation

## Heron groundwater data logger

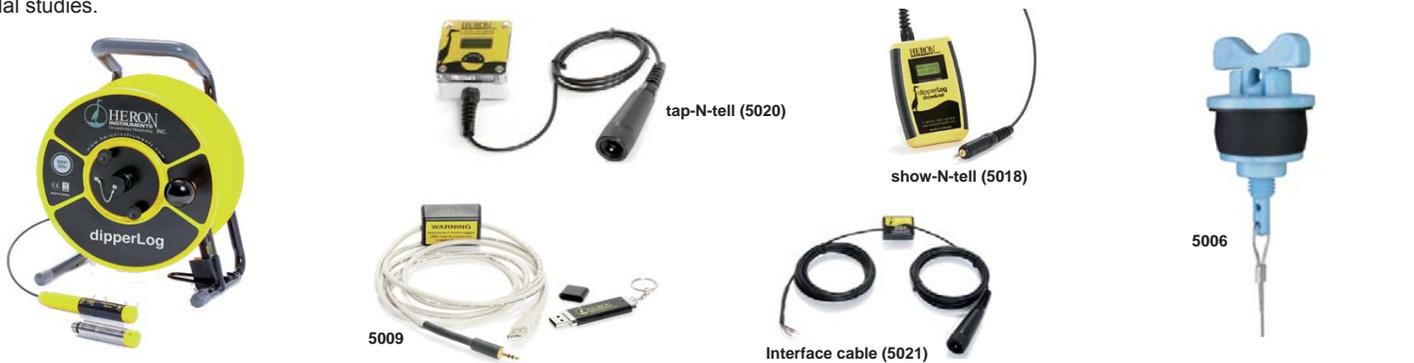
Heron's DipperLog NANO offers a large range of samples with pressure intervals up to 400' (120m) of depth and temperature. It is a superior, low cost, accurate groundwater data logger used by home owners, hydrogeologists and other groundwater professionals requiring a durable, reliable and cost effective solution to long term monitoring of groundwater levels and temperature in wells, boreholes and open bodies of water. The temperature response time is 10 seconds and can save up to 32,000 data sets (logging intervals between 1 second to 255 hours). The data can be transferred on a PC / printer via USB / RS232. The interface cable (5021) enables the DipperLog to be accessed from remote locations by a central computer base.

Reliable, durable and easy of use, even more with the BarLog barometric logger (DL-A) used to automatically compensate readings stored on the DipperLog NANO for changes in barometric pressure (for non-vented version). With an intuitive and user friendly software program, the DipperLog NANO is simple to launch and data recovery is fast and easy. A model with reading cable for PC is also available. The battery lifespan can reach up to 7 years based on 5 minute reading intervals. **The DipperLog NANO is available in stainless steel and delrin.**

The tap-N-tell (5020) is a surface mount weather resistant display accessory for the DipperLog that provides an instant real time reading of water level and temperature with a tap of a finger.

The show-N-tell (5018) is the portable version of the tap-N-tell that can be carried from well to well, giving instant real time reading of water level and temperature by simply plugging into the direct read well head. This product does not download or store the data from the logger.

The Vented DipperLog NANO (5032F / 5032M) is a reliable and cost effective solution to long term monitoring of groundwater levels and temperature in wells, boreholes and open bodies of water. The vented logger is also ideal for applications involving short term pump and slug testing, or for wetland and tidal studies.



ITEM	DESCRIPTION	IDEAL DEPTH	PRICE
DL-A	Logger type A (BarLog)	Barometric	493.90 \$
DL-B	Logger type B (DipperLog NANO)	1' - 29' (1 - 9m)	658.90 \$
DL-C	Logger type C (DipperLog NANO)	30' - 99' (10 - 29m)	658.90 \$
DL-D	Logger type D (DipperLog NANO)	100' - 199' (30 - 59m)	658.90 \$
DL-E	Logger type E (DipperLog NANO)	200' - 400' (60 - 120m)	658.90 \$

(\* Available in titanium, add "-TI" after the code (upon request).

### Accessories for DipperLog NANO:

5018	"show-N-tell" hand held display.	346.50 \$
5020	"tap-N-tell" surface mount display.	368.50 \$
5008	Software for DipperLog.	0.00 \$
5009	Communication cable for PC.	126.50 \$
5032F	Vented logger for DipperLog NANO (measure in feet).	2.75 \$
5032M	Vented logger for DipperLog NANO (measure in meters).	8.25 \$
5005M	Suspension wire in stainless steel (measure in meters).	3.85 \$
5005F	Suspension wire in stainless steel (measure in feet).	1.27 \$
5006	Watertight locking plug for wells (2 inches).	33.00 \$
5010M	Direct read down hole cable for wells (measure in meters).	3.85 \$
5010F	Direct read down hole cable for wells (measure in feet).	1.27 \$
5011	Direct read well head / mounting kit.	137.50 \$
5012	Reel for DipperLog (up to 60 meters of length).	379.50 \$
5013	Reel for DipperLog (more than 60 meters of length).	478.50 \$
5021	Interface cable for DipperLog NANO (7.5 to 35 VDC).	253.00 \$



Vented logger (5032F / 5032M)



BarLog (DL-A)

## 4-20mA pressure transmitters

The 4-20mA pressure transmitters are easily adaptable to telemetry / SCADA systems, digital displays and 3rd party data loggers. The 4-20mA provides highly accurate water level measurements for a wide variety of applications. A two-wire 4-20mA current loop is used with our pressure transmitters. Current between 7.5 and 35 VDC. Vented cable for DipperLog NANO required (code 5032M).

Available with digital display 4-20mA (5031).



ITEM	CABLE	IDEAL DEPTH	PRICE
5027	10 m	1 - 9 m	658.90 \$
5028	30 m	10 - 29 m	658.90 \$
5029	60 m	30 - 59 m	658.90 \$
5030	200 m	60 - 200 m	658.90 \$
5031	Digital display 4-20mA.		658.90 \$

## Foot carpet

The foot baths are recommended for the disinfection of the boots at the entrance of each building. This flexible rubber carpet offers hundreds of small suction cups to contain disinfecting liquid. The model 24" x 32" (60 x 80 cm) contains 1 gallon (3.8 liters) of disinfecting solution.

### Specifications:

- Easy cleaning: shake, pass the vacuum cleaner or the hose.
- Black colored carpet (**SDL-874**: black carpet & yellow wall).
- Extremely resistant manufacture in rigid rubber.
- Beveled edges for more safety.
- **SDL series**: 2½" thickness (**A**).



ITEM	DIMENS.	THICKNESS	COLOR	PRICE
SAL-651	32" le. x 24" wi.	1/2"	Black	113.05 \$
SDL-873	39" le. x 32" wi.	2½"	Black	162.26 \$
SDL-874	39" le. x 32" wi.	2½"	Yellow	204.82 \$

## Dissection kit

A high quality dissection kit at an affordable price. This low cost dissecting kit contains scalpel, dissecting scissors, forceps, dropper with rubber bulb, 2 straight teasing needles with plastic handles, 6" ruler with inch and metric scales, etc. All of this shipped within a vinyl holster.



ITEM	DESCRIPTION	PRICE
08-855	Dissection kit.	15.99 \$

## Polypropylene graduated cylinders

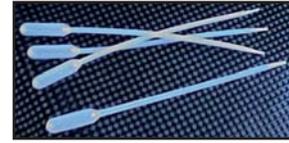
Our polypropylene graduated cylinders are suitable for food and beverage use. Perfect transparency, remarkable heat and chemical resistance. Withstands continuous usage at 350°F. Molded-in graduation lines on the back of the cylinders for easier, more accurate fluid level readings.



ITEM	CAPACITY	ACCURACY	PRICE
BB-06135-12	10 ml	0.2 ml	11.84 \$
BB-06135-32	50 ml	1 ml	12.82 \$
BB-06135-42	100 ml	1 ml	14.28 \$
BB-06135-78	250 ml	2 ml	16.68 \$
BB-06135-62	500 ml	5 ml	19.08 \$
BB-06135-72	1000 ml	10 ml	31.98 \$
BB-06135-92	2000 ml	20 ml	60.86 \$

## Disposable pipets

One-piece plastic pipets with clearly marked graduations. The stem narrows down to a fine tip. Graduated in 1-mL increments. 400/pack.



ITEM	DESCRIPTION	PRICE
ZX20404B	Capacity: Total > 6.0 ml   Bulb > 2.3 ml	105.05 \$

## Handheld depth sounder

This versatile, handheld depth finder will give instant readings in feet or meters from 2.5' to 200' (0.8 to 61m). The digital backlit display will show depth (and fish!) or switch to display air and water temperature (°F). Waterproof up to 50' of depth. Powered by 4 AA batteries (not included). **Handheld dimensions: 7" leng. x 2" width / Ø of 2".**



ITEM	DESCRIPTION	PRICE
PEN-DPX200	Handheld depth sounder.	184.30 \$

## Water samplers

### JT-1:

Simplified, one-liter, horizontal-style sampler features a clear acrylic body with a built-in outlet for removal of the water sample. A brass messenger is sent down a 20-meter, calibrated, nylon line to trigger a release mechanism sealing the sample chamber.

### PEN-LM1060:

Collect samples from depths between 1 and 20 meters. Its inner collection chamber allows dissolved oxygen samples to be "fixed" prior to removal. The outer chamber (1200 ml) is clear acrylic. A thermometer clip, weight and two extra inner collection chambers are included.



ITEM	DESCRIPTION	PRICE
JT-1	Water sampler with 20m cable.	359.98 \$
PEN-LM1060	Water sampler (depth of 1 to 20m).	184.30 \$

## Disposable soil samplers

These samplers are a one time use transfer tool, designed to easily take soil samples and transfer them to the appropriate containers for in-field chemical preservation. They deliver an approximate 5 or 10 grams sample. The all-in-one design of the sample eliminates the need for a separate handle.



ITEM	DESCRIPTION	PRICE
TERBPAC-5G	Disposable soil sampler - 5 grams.	195.00 \$
TERBPAC-10G	Disposable soil sampler - 10 grams.	195.00 \$

# Instrumentation

## Flow probes

An easy-to-use product, lightweight, accurate flow probe with a digital display of water speed. Available with telescopic handle from 3.7 to 6 feet (FP111) or from 5.5 to 14 feet long (FP211). The flow probe is shipped in a padded carrying case.



Display the results in FPS (Feet Per Second) or in MPS (Meter Per Second). One-year warranty.

**Range:** 0.3 to 19.9 FPS  
**Accuracy:** 0.1 FPS  
**Battery:** 5-year lifetime  
**Temperature:** -4° to 158°F (operating)

ITEM	DESCRIPTION	PRICE
FP111	Flow probe, 3.7 to 6-foot long handle.	1 565.00 \$
FP211	Flow probe, 5.5 to 14-foot long handle.	1 763.00 \$

## Water level loggers

Compact, autonomous, reliable and easy-to-use, this datalogger can save up to 81,000 readings. The included Windows compatible software makes accessing stored data and setting options easy. User programmable start and stop alarms, engineering units and field application setup. Automatic barometric pressure and temperature compensation. Non-volatile flash memory, operates with two 9-VDC alkaline batteries. Battery life up to 1 year (depending on the use). 12-bit resolution.



Other cable lengths available on demand.

ITEM	READING	CABLE	PRICE
WL16U-003	0 to 3' deep.	25'	1 592.95 \$
WL16U-015	0 to 15' deep.	25'	1 592.95 \$
WL16U-030	0 to 30' deep.	25'	1 592.95 \$
WL16U-060	0 to 60' deep.	75'	1 738.50 \$
WL16U-120	0 to 120' deep.	125'	1 917.00 \$
WL16U-250	0 to 250' deep.	250'	2 271.00 \$

## Bottom sampling dredge

Our all stainless steel dredge features a bottom sensing closure that eliminates the need for a messenger weight. This dredge is a convenient sediment-collecting device for mud, sand, and light gravel. A newly designed trigger ensures that the jaws stay open during descent. Area covered by the sampler once opened: 45 ft<sup>2</sup>.



ITEM	DESCRIPTION	PRICE
BD1097	Sampling volume of 110 ft <sup>3</sup> , weight 3 lbs.	311.98 \$

## Secchi disc

The plastic Secchi disc is a standard for measuring the relative visibility of water. Lower it into the water and when it disappears, record its depth. Diameter of 8" (20 cm). Stainless steel eye bolt and lead weight. Lowering line not included.



ITEM	DESCRIPTION	PRICE
DS-8	Secchi disc, 8" (20 cm).	32.00 \$

## Calibrated sampler line

This heavy-duty nylon line is marked from 0 to 20m in 1-meter increments.

Great for use with Secchi discs, bottom grab samplers and water samplers. A 2-lb spring clip is attached to one end for easy attachment.

Line is wound on a foam spool to prevent loss if dropped overboard. **PEN-LM1064** includes a 2-lb (908 grams) lead weight.



ITEM	DESCRIPTION	PRICE
PEN-LM1065	Calibrated line (0 to 20 meters).	65.58 \$
PEN-LM1064	Calibrated line (0 to 20 m) with 2-lb lead weight.	87.98 \$

## Velocimeters

These compact, mechanical velocity meters are designed for measuring water flow in lakes, rivers and more. The meters incorporate a precision molded rotor coupled directly to a six-digit counter that registers each revolution of the rotor and displays it similar to an odometer (up to 999,999 which equal around 14.5 nautical miles). Properly balanced to maintain a horizontal position when suspended by a towing line. Each flow meter measures 8-3/8" long, 1-9/16" in diameter and includes 18" of tow line and a stainless steel connecting axle pin.



ITEM	DESCRIPTION	PRICE
2030R6	Velocimeter low speed: 2 to 100 cm/sec.	838.38 \$
2030R	Velocimeter high speed: 10cm/sec to 7.9m/sec.	804.78 \$
2030W	Telescoping aluminum rod.	270.00 \$

## All-weather pen & refill

This all-purpose pen is the ideal tool for your outdoor applications no matter what the weather conditions are. Writes on wet paper and upside down in temperatures from -30° to 250°F. Ink refill available.



ITEM	DESCRIPTION	PRICE
PEN-RR37	All-weather black ink pen.	19.02 \$
PEN-RR37R	Black ink refill for all-weather pen.	12.94 \$

## Self-piercing tags

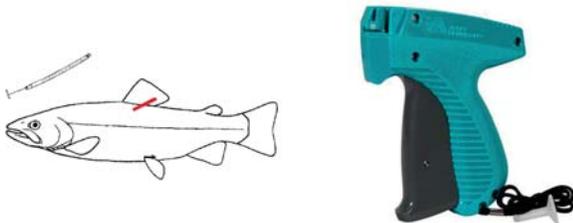
Operculum tags for aquatic research and aquaculture applications. They are also useful for monitoring fish habits, tracking growth rates and marking broodstock. A special clamp is necessary for installation. It is important to give enough space for the growth of the animal. Available in red, blue, green and yellow. Offer in pack of 100 tags.



ITEM	DESCRIPTION	PRICE
AFT10	Nickel tag, 10mm of length. (100)	45.00 \$
AFT10T	Clamp for 10mm tag.	59.99 \$
AFT15	Nickel tag, 15mm of length. (100)	45.00 \$
AFT15T	Clamp for 15mm tag.	66.00 \$
AFT28	Steel tag, 28.5mm of length. (100)	45.00 \$
AFT28T	Clamp for 28.5mm tag.	90.00 \$
AFT43	Steel tag, 43mm of length. (100)	45.00 \$
AFT43T	Clamp for 43mm tag.	69.59 \$

## “T-BAR” tags

Numbered from 0 to 100, these anchor tags work well with medium and small fish. They are applied with a tagging gun (TG) and are inserted below the dorsal fin. A larger end prevents slippage of the numbered shrink cover. Tags come in cartridges of 50 tags and can be used in a high-speed tagging operation.



ITEM	DESCRIPTION	PRICE
FF-94	T-bar small (100) length of 1½”.	170.00 \$
FD-68B	T-bar medium (100) length of 2½”.	170.00 \$
MARK-I	Tagging gun for “T-bar” 1½”.	140.00 \$
MARK-II	Tagging gun for “T-bar” 2½”.	140.00 \$
MARK-III	Stain. steel tagging gun for “T-bar” 2½”.	150.00 \$
AIGP	Mark I spare needle.	20.00 \$
AIGM	Mark II, III spare needle.	20.00 \$

## Injectable “PIT tag”

The 12mm injectable tag has been designed to give an accurate electronic identification. Sophisticated but economical, the 12mm x 2.1 tag is permanent and positive. It has an integrated circuit, winding and a hermetically sealed capacitor that is manufactured from biocompatible glass. The tag does not require any power source or moving part to be replaced, while offering long-term identification. Placed in front of the electromagnetic field of a reader (optional), the tag activates itself and communicates its data with the reader in a matter of milliseconds. Cold sterilization with 70% isopropyl alcohol is recommended to sterilize each tags before using them on animals.

The “Power Tracker” is a portable, water-resistant & handheld identification tag reader. The device can be made waterproof in factory (optional). This reader emits non-dangerous radio frequency signals. Each model includes an interface cable for computer or you can download your data via the RS-232 interface with a PC or Macintosh computer. The optional software gives an automatic interface between the reader and the computer. A battery charger is also included. The reader is available in 7 different models, each one being able to read a variety of injectable tags made by different manufacturers. If you need more information about these products, an Aquamerik representative will be happy to help you out.

Price upon request.



## Technique

### How to use a “T-BAR” identification tag

These fish labels perfectly suit to aquaculture research and especially for genetics. By maintaining appropriate data, the labels can provide information on sex, age, genetic line, or produce dispersion models, etc. A proper installation of a label may require some practice, but by following the next method, it will be easier and safer. The goal is to place the label “hook” in the rays on the dorsal fin which are pointing towards the fish’s muscles. If you’re correct, you should feel the bones by fixing the label. To facilitate this, hold firmly the fish in swimming position and reduce their motion.

The fish in movement can damage the needle and cause injury to the user or fish. Using the tip of the needle, lift up a scale and insert the needle at the base (forward) of the anterior dorsal fin. Then hold the gun firmly against the body of the fish while pressing the handle. Slightly twist the pistol and remove the needle.

DO NOT RELEASE THE COMPRESSED HANDLE UNTIL THE NEEDLE HAS BEEN COMPLETELY TOOK OUT. Once removed, slowly release the handle and ensure that the next tag is positioned for labeling. **Note:** disease transmission can be a concern when tagging fish. To minimize this risk, disinfect the needle with rubbing alcohol, iodine or other disinfectant between each plant label.

# Instrumentation

## Books

Here is a selection of books specially written for all things related to the aquaculture world, covering many subjects and issues frequently tackle by aquaculturists all around the world. These references can come in handy for beginners and skilled aquaculturists alike.

Other aquaculture related books available at Aquamerik. Contact use for more information.

## Recirculating Aquaculture

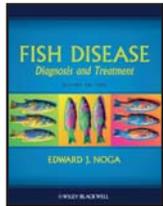
**Authors: Michael B. Timmons, James Ebeling & Fredrick W. Wheaton**

Developed to be a practical guide to intensive aquaculture for the practicing aquaculturist, this book includes basic principles behind biofilter systems, gas conditioning equipment, solids capture, waste treatment & management, and much more.



The book lists a website with programs to perform most necessary engineering calculations.

## Fish Disease: Diagnosis and Treatment



**Author: Edward J. Noga**

Regarded as one of the most comprehensive reference books available regarding fish diagnostics. Chapters include "Methods of diagnosing fish disease", "Equipping a fish disease diagnostic lab", "Postmortem techniques", "Clinical decision making", "Treatment guidelines" and "Pharmacopoeia".

## Fish Hatchery Management

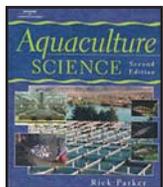
**Author: Gary Wedemeyer**

This is a must-have book, covering a wide variety of subjects, from setting up a hatchery through feeding, hatchery operation, fish health, water quality and transportation.



Many useful charts. Many people use this book daily for their aquaculture applications.

## Aquaculture Science



**Author: Rick Parker**

This book provides information on all aspects of aquaculture in an easy-to-read format. Subjects include fish, aquatic plants, water quality, marketing, economics, nutrition, career opportunities and much, much more.

Each chapter ends with a comprehensive review. Suitable for grades 8 and up.

ITEM	DESCRIPTION	PRICE
WQB-109	Recirculating aquaculture, 769 pages.	227.98 \$
WQB-90	Fish disease: diagnosis and treatment, 536 pages.	230.06 \$
WQB-28	Fish hatchery management, 515 pages.	117.58 \$
BE-1	Aquaculture science, 621 pages.	235.82 \$

## All-weather copy paper



Now you can have the convenience of using your existing data sheets on a paper that can survive in any weather condition. Enables you to work efficiently, regardless of the environment. Do not use with ink jet printers.

ITEM	DIMENS.	# OF PAGES	COLOR	PRICE
RR-851	8½" x 11"	200	White	57.26 \$

## All-weather notebooks

These all-weather notebooks enable you to write anywhere, in any weather. From the torrential downpours in the Pacific Northwest, to the blistering heat and humidity of a Florida summer day, they are able to provide users with an effective means to write, protect, and keep valuable information.

**Types of notebooks available: field, journal and light grid.**

**Styles of notebooks available: stapled, top and side spiral.**



Top spiral



Side spiral



Stapled

ITEM	DIMENS.	TYPE	STYLE	# OF PAGES	PRICE
RR-135	3" x 5"	Grid	top spiral	50	8.30 \$
RR-146	4" x 6"	Grid	top spiral	50	10.06 \$
RR-393	4-5/8" x 7"	Journal	side spiral	32	12.62 \$
RR-353	4-5/8" x 7"	Field	side spiral	32	12.62 \$
RR-393MX	8½" x 11"	Journal	side spiral	42	26.86 \$
RR-115	8½" x 11"	Field	side spiral	42	26.86 \$
RR-391FX	4-5/8" x 7"	Journal	stapled	24	8.30 \$
RR-351FX	4-5/8" x 7"	Field	stapled	24	8.30 \$

## Marine science kit

This rugged combination outfit is easy to transport, simple to use and a necessity for any saltwater field sampling. Durable, reliable sampling gear and measurement devices all housed within a rugged field carrying case for easy transport and storage.

Kit includes: Forel-Ule color comparator kit and Secchi disc (20cm in diameter) to determine turbidity and degree of visibility in water columns; bottom sampling dredge to obtain bottom sediment for surface analysis; D.O. water sample bottle to collect water samples for analysis at controlled depths (holds 60ml of sample); plankton net (153 micron mesh net is 15" in length and has a 5" diameter mouth and two 50ml collection tubes at end); armored thermometer in protective, plastic jacket for accurate temperature readings (range is 5° to 45°), sounding lead and calibrated line.



ITEM	DESCRIPTION	PRICE
LM-1069	Sampling & measurement kit, marine science.	862.38 \$