

POOLPRO™



*The fastest, most accurate, reliable, easy-to-use
handheld water quality analysis tool for any pool or spa.*



**MYRON L
COMPANY**

Water Quality Instrumentation
Accuracy • Reliability • Simplicity

Waterproof
& Buoyant

POOLPRO™

Advanced Design • Superior Performance



Six Parameters!

- pH
- TDS
- ORP
- Mineral/Salt
- Conductivity
- Temperature

Four-digit display for full 9999 readings with autoranging capability up to 200 ppt/200 mS

Powerful microprocessor-based surface-mount circuitry

Display prompts for simple pH calibration

Real Time Clock

Memory for 100 readings with Date & Time Stamp

Factory-calibrated with NIST traceable solutions, each POOLPRO may be supplied with both certification of traceability & NIST traceable solutions for definitive calibration

pH/ORP Sensor protective cap

Fully automatic temperature compensation

Auto-shutoff maximizes the life of the single 9V battery to more than 100 hours/5000 tests

Non-volatile microprocessor provides data back-up, even when the battery is changed; this assures all calibrations and memory data are retained

Extended life pH/ORP sensor is user-replaceable in the field

FAST READINGS • EASY TO USE

ACCURACY YOU CAN TRUST

Since 1957, the Myron L Company has designed and manufactured highly reliable analytical instruments for a wide variety of demanding applications. Thousands of professionals around the world rely on the performance of our instruments every day. Uses range from boiler water testing to ultrapure water control to medical instruments for artificial kidney machines.

We are proud of the trust our handheld instruments and monitor/controllers have earned. We have continued to build on that trust and have reached a new and greater level of quality and performance in the latest instrument in our line of handheld tools: POOLPRO gives you the most reliable, precise, affordable, multi-parameter instrument available for testing water quality in any pool or spa.

Every Pool Professional Needs a POOLPRO

There are many factors affecting the comfort and sanitation of pool and spa water and the functioning of the equipment and structures that hold it. A variety of test kits can be used to measure these factors, but the powerful POOLPRO is the most comprehensive testing tool available for *any pool or spa*. You get fast, lab-accurate results for up to 6 parameters: pH, ORP, TDS, Mineral/Salt Concentration, Conductivity, and Temperature.

Maintain Balanced Water

POOLPRO tests the basic parameters required to balance water so you can protect your pool or spa shell, plumbing, and all other related equipment from damage by etching or build-up and stains.

POOLPRO gives you instant, precise **pH** readings. Using colored strips or solutions can produce wildly varying, inaccurate results. pH is the most important factor in water balance and must be kept within a recommended range that also optimizes the sanitizer's ability to work.

POOLPRO is also a quick and easy way to stay on top of **Total Dissolved Solids (TDS)**. TDS is another factor in water balance and profoundly impacts water taste and bather comfort.

In a commercial pool or spa you must carefully monitor and control TDS on a regular basis to maintain acceptable levels. This prevents having to eventually drain and refill the pool or spa with new, lower TDS water — which is not only costly, but may be illegal.

POOLPRO measures and reports **temperature** to one tenth of a degree with every sample taken. Temperature plays a role in water balance, the growth of microorganisms, and especially affects bather comfort.

Keep Water Sanitary

Myron L's POOLPRO provides the fastest, most precise, easy-to-use method of obtaining **Oxidation Reduction Potential (ORP or REDOX)** readings to check the true level of effectiveness of all sanitizers in any pool or spa.

Tests are available that determine the amount of free and total chlorine, bromine, and other sanitizers.

However, ORP is the only way to determine the total killing power of them *all*. ORP objectively and precisely measures the sanitizer's ability to burn up, or oxidize, organic matter in the water. ORP can only be determined by an electronic instrument.

Automatic control systems that rely on ORP to monitor and control sanitizer levels require manual testing with separate instrumentation as a necessary check to ensure the system is working properly.

Saltwater Sanitation

POOLPRO conveniently tests for **mineral/salt** concentration at the press of a button. In saltwater systems, manual testing with separate instrumentation is necessary to ensure enough sodium chloride is present to generate the chlorine required to sanitize the water. System components can scale or fail and must be re-calibrated as part of regular maintenance.

Reportable Records

POOLPRO makes it easy to record, analyze, archive, and report water quality data with the optional uDock™ accessory package. Simply set the POOLPRO on the uDock and download stored data to any computer. The data can then be imported into any program necessary for record-keeping and analysis. The uDock is the fastest, easiest, best way to comply with record-keeping and reporting requirements.

Simply the Best

POOLPRO is lightweight, portable, buoyant, waterproof, easy-to-calibrate, and easy-to-use. Simply rinse and fill the cell cup by dipping the POOLPRO in the water, then press the button of the parameter you wish to measure. You immediately get a standard, numerical digital readout — eliminating all subjectivity. Up to 100 date-time-stamped readings can be stored in POOLPRO's non-volatile memory.

POOLPRO is the pool professional's tool of choice for the most comprehensive, efficient, cost-effective testing of any pool or spa water.

More from Myron L

PoolMeter™ is another high quality Myron L instrument for measuring TDS/NaCl/Salt in any pool or spa. We also offer Alkalinity Test Kits to measure Total Alkalinity. Call 1-760-438-2021 or visit our website for details. www.myronl.com

BENEFITS THAT SAVE YOU TIME & MONEY



The advanced four-electrode cell for conductivity/ MIN/SALT/TDS eliminates polarization, allowing greater accuracy and stability with minimal maintenance.

The pH/ORP sensor chamber provides protection to a unique porous liquid-junction.

The large capacity KCl reservoir extends the life of pH/ORP sensor.

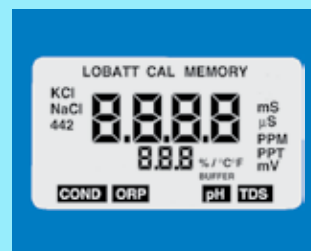
IP67/NEMA 6 rated POOLPRO is waterproof and buoyant and can be fully immersed to 3 feet/1 meter.

A custom LCD helps simplify operation and calibration by using annunciators and prompts to indicate various conditions.

Ample memory provides increased flexibility to record and store 100 separate readings.

Real Time Clock with Date & Time Stamp allows you to maintain the integrity of each individual reading.

Built-in IR Port allows you to conveniently download your data to a computer. (Requires Myron L uDock™ Accessory Package)



Features

Accuracy of BETTER than $\pm 1\%$ of reading
 Autoranging Conductivity/TDS
 Superior resolution 4 Digit LCD displays full 9999 $\mu\text{S}/\text{ppm}$
 Real Time Clock with Date and Time
 Data Logging with Date and Time stamped in memory
 Waterproof to 1 meter/3 feet
 pH Calibration Prompts
 Low battery indicator
 User adjustable timeout "Auto-off"
 All Sensors are internal for maximum protection
 Download capability with optional uDock™

Specifications

Display 4 Digit Liquid Crystal Display
 Dimensions: LxWxH 196 x 68 x 64 mm/ 7.7 x 2.7 x 2.5 in.
 Weight 352 g/12.4 oz.
 Case/conductivity cell material VALOX*
 Cell capacities pH/ORP: 1,2 ml/0.04 oz.
 Cond/TDS/MIN/SALT: 5 ml/0.2 oz.
 Power 9V alkaline battery
 Battery life >100 hours (5000 readings)
 Operating/storage temperature 0 – 55°C/32 – 132°F
 Protection ratings IP67/NEMA 6
 Waterproof to 1 meter/3 feet

*™GENERAL ELECTRIC

Parameters

	Conductivity	TDS	Mineral/Salt	pH	ORP	Temperature
Ranges	0–9999 $\mu\text{S}/\text{cm}$ 10–200 mS/cm in 5 autoranges	0–9999 ppm 10–200 ppt in 5 autoranges	0–9999 ppm 10–200 ppm in 5 autoranges	0–14 pH	± 999 mV	0–71°C 32–160°F
Resolution	0.01 (<100 μS) 0.1 (<1000 μS) 0.1 (<10 mS) 0.01 (<100 mS) 0.1 (<200 mS)	0.01 (<100 ppm) 0.1 (<1000 ppm) 1.0 (<10 ppt) 0.01 (<100 ppt) 0.1 (<200 ppt)	0.01 (<100 ppm) 0.1 (<1000 ppm) 1.0 (<10 ppt) 0.01 (<100 ppt) 0.1 (<200 ppt)	± 0.01 pH	± 1 mV	0.1°C/F
Accuracy	$\pm 1\%$ of reading	$\pm 1\%$ of reading	$\pm 1\%$ of reading	± 0.01 pH	± 1 mV	$\pm 0.1^\circ\text{C}$
Auto Temperature Compensation	0–71°C 32–160°F	0–71°C 32–160°F	0–71°C 32–160°F	0–71°C 32–160°F	—	—
Conductivity/TDS Ratios Preprogrammed	KCl, 442*, NaCl	KCl, 442*, NaCl	KCl, 442*, NaCl	—	—	—

*442 Natural Water Standard™ Myron L Company

Accessories

uDock™ Accessory Package includes uDock™, USB cable and Macintosh/PC application software for downloading data.
 MODEL: U2CIP



Certificates

affirming the NIST traceability of a POOLPRO are available (must be specified when placing instrument order).

MODEL: MC

Conductivity Standard Solutions

are necessary to maintain accuracy and for periodic calibration of conductivity/TDS parameters. All Standard Solutions are NIST traceable for your complete confidence.



RECOMMENDED VALUES: KCl-7000, 442-3000 (TDS), or NaCl-7500 ppm available in 2 oz/59 ml, 1 qt/1 L, and 1 gal/3,8 L.

pH Buffers are necessary to maintain accuracy and for periodic calibration of pH and ORP parameters. Calibration with pH 7 Buffer is especially important. All pH 4, 7, and 10 Buffers are NIST traceable and are available in 2 oz/59 ml, 1 qt/1 L, and 1 gal/3,8 L.

pH Sensor Storage Solution preserves sensor for longer life.

Available in 2 oz/59 ml, 1 qt/1 L, and 1 gal/3,8 L.
 MODEL: SS2OZ, SSQ and SSG

Certificate of NIST traceability for pH Buffer or Conductivity Standard Solutions are available (must be specified when placing solution order).
 MODEL: SC

Porta-Pak hard protective case (small)
 MODEL: UPP



Porta-Kit hard protective case (kit) with three buffers (pH 4, 7, and 10), one pH/ORP Sensor Storage Solution, and three Standard Solutions, (KCl-7000, 442-3000, NaCl-7500). * All bottles are 2 oz/59 ml.
 MODEL: PKPS



*configuration may vary

Soft protective case is constructed of padded Nylon™ and features a belt clip for hands-free mobility.
 MODEL: UCC (Blue)
 UCCDT (Desert Tan)



Replacement pH/ORP sensor user-replaceable, features a unique porous liquid-junction.
 MODEL: RPR



Built on Trust

Founded in 1957, Myron L Company is one of the world's leading manufacturers of water quality instruments. Because of our policy of continuous product improvement, changes in design and the specifications in this brochure are possible. You have our assurance any changes will be guided by our product philosophy: Accuracy, Reliability, Simplicity.

Limited Warranty

All Myron L POOLPROs have a Two (2) Year Limited Warranty. The pH/ORP sensors have a Six (6) Month Limited Warranty. Warranty is limited to the repair or replacement of the POOLPRO only, at our discretion. Myron L Company assumes no other responsibility or liability.

MYRON L COMPANY
 Water Quality Instrumentation
 Accuracy • Reliability • Simplicity

2450 Impala Drive
 Carlsbad, California 92010-7226 USA
 Tel: +1-760-438-2021
 Fax: +1-800-869-7668 / +1-760-931-9189



www.myronl.com

NEW MYRON L COMPANY POOLPRO™ FEATURES AND FUNCTIONS

LANGELIER SATURATION INDEX CALCULATOR

The POOLPRO now features an LSI calculator that makes it easy to analyze the scaling nature of water in the lab or in the field. Using a calcium carbonate saturation index algorithm developed by Dr. Wilfred Langelier in 1936, the calculator computes the saturation index of a sample based on measured and inferred values for pH, temperature, hardness and alkalinity. You can then change any of these values in user adjust mode to analyze the effect of the change on water balance. User mode also allows you to input measured values for alkalinity and hardness as determined by other independent testing for a precise saturation index value.

Saturation index values are generally interpreted as follows:

- An index between -0.5 and +0.5 indicates balanced water
- An index of more than +0.5 indicates scale-forming water
- An index below -0.5 indicates corrosive water

HARDNESS CALCULATOR

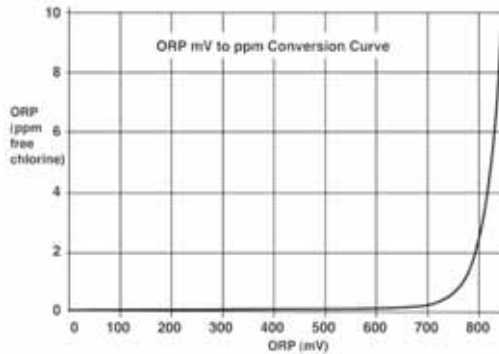
Within the LSI Calculator is a Hardness calculator that allows you to select either ppm or grains of hardness units for saturation index calculation. The hardness unit conversion is based on the following equivalency: 17.1 ppm (mg/L) = 1 grain. The hardness range is limited to 0.0 - 1710 ppm and 0.0 - 100 grains of hardness in the POOLPRO.

FREE CHLORINE

POOLPRO now features the ability to convert Oxidation Reduction Potential measurements from mV to parts per million (ppm) free chlorine. mV and ppm free chlorine are the two most commonly used sanitizer measurement units in the pool and spa industry. The mV to ppm free chlorine conversion algorithm is based on a published conversion curve and bench testing performed at the Myron L Company. The accuracy of low-range ppm free chlorine readings has been increased by extrapolating from the published data. With this new feature Myron L POOLPRO can measure a dynamic range of sanitizer concentrations that is wider than the range of a colorimetric test kit.

Additional ORP Specifications	
Spec	Value
Ranges	± 999 mV 0.00 – 9.99 ppm
Resolution	mV resolution: 1 mV ppm resolution: 0.01 ppm
Accuracy	± 1 mV ± 2.5% of reading ppm*

PLOT SHOWING THE CONVERSION CURVE BETWEEN PPM AND MV*



*Given water is sanitized by only chlorine at a pH of 6.5-7.5 and a temperature of 25°C

WIRELESS DATA TRANSFER

POOLPRO now features the ability to transfer data wirelessly with the bluDock™ accessory package. Package includes POOLPRO hardware modification that allows the instrument to communicate wirelessly via Bluetooth® technology. Package also includes U2CI™ software application that will operate on Windows XP, Vista and 7™, and Macintosh OS™ based computer systems and Bluetooth USB adapter (dongle) for computers that do not have Bluetooth capability. U2CI has an intuitive user interface that makes it easy to transfer and manipulate data. Save files in native .mlc format to view in U2CI application or as comma separated values for spreadsheet import.

† Bluetooth is a registered trademark of Bluetooth SIG. The bluDock module is a registered Bluetooth device.