

Accuracy • Reliability • Simplicity

Ultrameter™



Waterproof

- pH
- ORP
- TDS
- Resistivity
- Conductivity
- Temperature

CE

**MYRON L
COMPANY**

pH/Conductivity Instrumentation
Accuracy • Reliability • Simplicity

pH/ORP Sensor protective cap

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

Powerful microprocessor based surface-mount circuitry

Display prompts for simple pH calibration

Memory for 20 readings

Factory calibrations stored in microprocessor



ULTRA-FAST ULTRAMETER™ ULTRA-EASY

Products with proven performance

Myron L Company, for more than 35 years, has designed and manufactured highly reliable analytical instruments for a wide variety of applications. Thousands of professionals around the world rely every day on the performance of our instruments. Demanding uses range from boiler water testing to ultrapure water controls to medical instruments for artificial kidney machines.

We are proud of the trust our portable instruments and monitor/controllers have earned in the past. Our product line has evolved to a new level of outstanding performance and value in analytical instruments: the Ultrameter series. While priced like affordable single-parameter instruments, the Ultrameter does the job of three, four or even six instruments.

Accuracy you can trust

All Ultrameter models deliver performance of $\pm 1\%$ of reading (not merely full scale). This high level of accuracy has been achieved through advanced four-electrode conductivity cell technology, a unique pH/ORP sensor and powerful microprocessor-based circuitry. With displayed values of up to 9999, the full four-digit LCD ensures resolution levels never before possible in such affordable instruments.

Factory calibrated with NIST traceable solutions, each Ultrameter can be supplied with both certification of traceability and NIST traceable solutions for definitive calibration.

Fast and accurate in the laboratory, all three models are rugged enough for daily inline controller checks in hostile process applications.

Simplicity through engineering

The Ultrameter is a prime example of how high-tech engineering can greatly simplify and streamline a task.

Whether in the lab, industrial plant, or in a remote field location, merely:

1. Fill the cell cup
2. Push a parameter key
3. Take the reading

Imagine—temperature compensation and range selection are both rapid and automatic. The Ultrameter is a true one-hand operation instrument.

Ideal for

Irrigation water
Hydroponics
Fountain solutions for printing
Laboratories

Easy to calibrate

All calibrations are quickly accomplished by pressing the \blacktriangle or \blacktriangledown keys to agree with our NIST standard solution. When calibration is necessary, display prompts simplify pH calibration and make sure the correct buffer is being used.

Plus, all parameters (excluding temperature which is factory-set) have an internal electronic setting which can be used for field calibration and as a check on pH/ORP sensor life.

Other advanced features

- Fully automatic temperature compensation
- User adjustable temperature compensation (up to $9.99\%/^{\circ}\text{C}$) which also allows TC to be disabled for those applications requiring non-compensated readings.
- User adjustable conductivity/TDS conversion ratio for greater accuracy when measuring solutions not contained in the microprocessor.
- Auto-shut off maximizes the life of the single 9 V 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 will be retained.
- Extended life pH/ORP sensor is user replaceable in the field.

Your best instrument value

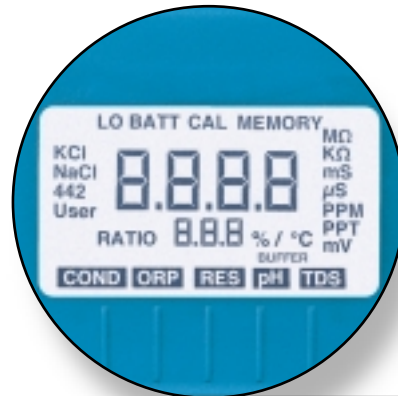
Beyond their affordable purchase price, Ultra-Fast, Ultra-Easy, Ultrameters save both time and money. Measure for measure, Ultrameters give you a better return on your investment than any other hand-held instrument. To see for yourself, contact your distributor or the Myron L Company today.

Reverse osmosis
Deionization
Wastewater
Cooling towers
Environmental

All Ultrameter electrodes are built-in for maximum protection. The advanced four-electrode cell for conductivity/resistivity/TDS eliminates polarization for greater accuracy, stability, and minimal maintenance.



The pH/ORP sensor chamber protects a unique porous liquid-junction. The large capacity KCl reservoir guarantees extended life.



Ultrameters feature a custom LCD with annunciators and prompts to simplify calibrations and indicate conditions such as overrange and low battery.



Ultrameters are IP67/NEMA 6 rated and can be fully immersed to 3 feet/1 meter. Lightweight (only 13.5 oz./383 g), they also float!

Features

Ultrameter™ models	3P	4P	6P
	pH ORP Temperature	Conductivity TDS, Resistivity Temperature	Conductivity, TDS Resistivity, pH ORP, Temperature
Autoranging		•	•
Adjustable Temp. Compensation		•	•
Adjustable Cond/TDS ratio		•	•
Memory (20 readings)	•	•	•
Calibration Prompts	•		•
Low battery indicator	•	•	•
Auto-off	•	•	•

Parameters

	Conductivity	TDS	Resistivity	pH	ORP	Temperature
Ranges	0–9999 µS 10–200 mS in 5 autoranges	0–9999 ppm 10–200 ppt in 5 autoranges	10 KΩ–30 MΩ	0–14 pH	±999 mV	0–71°C 32–160°F
Resolution	0.01(<100 µS) 0.1(<1000 µS) 1.0(>1000 µS)	0.01(<100 ppm) 0.1(<1000 ppm) 1.0(>1000 ppm)	0.01(<100 KΩ) 0.1(<1000 KΩ) 0.01(>1 MΩ)	0.01 pH	1 mV	0.1°C/F
Accuracy	±1% of reading***	±1% of reading***	±1% of reading**	±0.01 pH	±1 mV	±0.1°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	—	—
Adjustable Temperature Compensation	0–9.99%/°C	0–9.99%/°C	0–9.99%/°C	—	—	—
Conductivity/TDS Ratios Preprogrammed	KCl, 442*, NaCl	—	—	—	—	—
Adjustable Conductivity/TDS Ratio Factor	0.20–7.99	—	—	—	—	—

*442 Natural Water Standard™ Myron L Company

**10 KΩ–10 MΩ

***Up to 100 mS/ppt; 100–200 mS/ppt: ± 1 – 2%

Specifications

Display	4-digit LCD
Dimensions LxWxH	7.7 x 2.7 x 2.5 inches (196 x 68 x 64 mm)
Weight	13.5 oz (383 g)
Case/conductivity cell material	VALOX*
Cell capacities	pH/ORP: 0.04 oz (1.2 ml) Cond/TDS/Res: 0.2 oz (5 ml)
Power	9 V alkaline battery
Battery life	>100 hours (5000 readings)
Operating/storage temperature	32 – 132°F (0 – 55°C)
Protection ratings	IP67/NEMA 6 waterproof to 3 feet (1 meter)

*™GENERAL ELECTRIC

Accessories

Certificate of factory NIST traceable calibration of an Ultrameter (must be specified when instrument is ordered). MODEL: MC

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

RECOMMENDED VALUES: KCl-7000 (7 mS), 442-3000 (TDS), or NaCl-14.0

pH Buffers are necessary for maximum accuracy of pH and ORP tests. Calibration with pH7 buffer is especially important. All buffers are NIST traceable. pH 4, pH 7 and pH 10 buffers.

pH Sensor Storage Solution
MODEL: SS20Z, SSQ and SSG

Certificate of NIST traceability for either pH buffers or Conductivity Standard Solution (must be specified when solution is ordered).

MODEL: SC

Hard protective case only (small)
MODEL: UPP

Hard protective case (kit) with three buffers (pH 4, 7, and 10), one pH/ORP storage solution, and two standard solutions, (KCl-7000, and 442-3000). All bottles are two ounces. MODEL: PKU

Soft protective case is padded Cordura Nylon* and features a belt clip for hands-free mobility. MODEL: UCC

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



*™DUPONT COMPANY

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.

MYRON L COMPANY

pH/Conductivity Instrumentation
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Limited Warranty

All Myron L Ultrameters have a 2 year warranty. The pH/ORP sensors have a limited 6 month warranty. Warranty is limited to the repair or replacement of the Ultrameter only, at our discretion. Myron L Company assumes no other responsibility or liability.

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