

# ULTRAMETER II™

*Advanced Design • Superior Performance*



pH/ORP Sensor protective cap

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

Powerful microprocessor based surface-mount circuitry

Display prompts for simple pH calibration

Memory for 100 readings with Date & Time Stamp

Real Time Clock

Factory calibrations stored in microprocessor



*Conductivity*

*Resistivity*

*TDS*

*Temperature*

*pH*

*ORP*



# *ULTRA-FAST ULTRA-EASY ULTRA-POWERFUL*

Since 1957, the Myron L Company 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 control to medical instruments for artificial kidney machines.

We are proud of the trust our handheld 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 II series. While priced like affordable single-parameter instruments, the Ultrameter II does the job of three, four or even six instruments.

## Accuracy You Can Trust

Both Ultrameter II 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 II may be supplied with both certification of traceability and NIST traceable solutions for definitive calibration.

Fast and accurate in the laboratory, both Ultrameter II models are rugged enough for daily in-line controller checks in hostile process applications.

## Innovative Engineering

The Ultrameter II 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

Temperature compensation and range selection are both rapid and automatic. The Ultrameter II is a true one-hand operation instrument.

## Easy to Calibrate

All calibrations are quickly accomplished by pressing the ▲ or ▼ keys to agree with our NIST traceable Standard Solution. When calibration is necessary, display prompts simplify pH calibration and make sure the correct buffer is being used. Plus, all parameters (excluding factory-set temperature) have an internal electronic setting that can be used for field calibration and as a check on pH/ORP sensor life.

## Advanced Features

- Fully automatic temperature compensation
- User adjustable temperature compensation (up to 9.99%/°C) which also allows TC to be disabled for applications requiring non-compensated readings.
- User adjustable conductivity/TDS conversion ratio for greater accuracy when measuring solutions not contained in the microprocessor.
- 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 will be retained.
- Extended life pH/ORP sensor is user replaceable in the field.

## High Performance at a Low Cost

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

## Multiple Applications

**Irrigation Water**

**Hydroponics**

**Laboratories**

**Homeland Security**

**Reverse Osmosis**

**Deionization**

**Wastewater**

**Cooling Towers**

**Environmental**

**Desalination**

**Fountain Solutions**

## BENEFITS DESIGNED TO SAVE YOU TIME & MONEY



Built-in IR Port allows you to conveniently download your data to a computer.

**(Requires Myron L uDock™ Accessory Package)**

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.

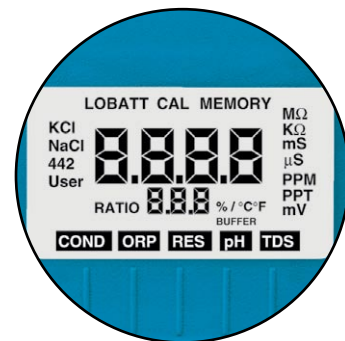
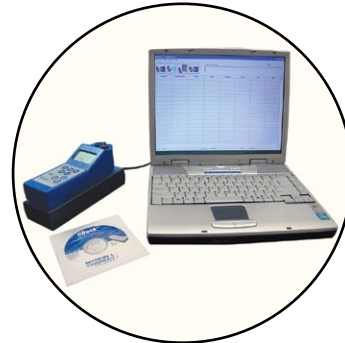
The advanced four-electrode cell for conductivity/resistivity/TDS eliminates polarization, allowing greater accuracy and stability with minimal maintenance.

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

The large capacity KCl reservoir guarantees extended life.

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

IP67/NEMA 6 rated Ultrameter II's are waterproof and buoyant and can be fully immersed to 3 feet/1 meter.



## Features

Ultrameter II™ Models	4PII	6PII
	Conductivity TDS, Resistivity Temperature	Conductivity, TDS Resistivity, pH ORP, Temperature
<b>Autoranging</b>	•	•
<b>Adjustable Temp. Compensation</b>	•	•
<b>Adjustable Cond/TDS ratio</b>	•	•
<b>Memory (100 readings)</b>	•	•
<b>Date &amp; Time Stamp</b>	•	•
<b>pH Calibration Prompts</b>	•	•
<b>Low battery indicator</b>	•	•
<b>Auto-off</b>	•	•

## Parameters

	Conductivity	TDS	Resistivity	pH	ORP	Temperature
<b>Ranges</b>	0–9999 µS/cm 10–200 mS/cm 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
<b>Resolution</b>	0.01(<100 µS) 0.1(<1000 µS) 1.0(<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 KΩ) 0.1(<1000 KΩ) 0.1(>1 MΩ)	±0.01 pH	±1 mV	0.1°C/F
<b>Accuracy</b>	±1% of reading	±1% of reading	±1% of reading	±0.01 pH	±1 mV	±0.1°C
<b>Auto Temperature Compensation</b>	0–71°C 32–160°F	0–71°C 32–160°F	0–71°C 32–160°F	0–71°C 32–160°F	—	—
<b>Adjustable Temperature Compensation to 25°C</b>	0–9.99%/°C	0–9.99%/°C	0–9.99%/°C	—	—	—
<b>Conductivity/TDS Ratios Preprogrammed</b>	KCl, 442*, NaCl	KCl, 442*, NaCl	—	—	—	—
<b>Adjustable Conductivity/TDS Ratio Factor</b>	0.20–7.99	0.20–7.99	—	—	—	—

\*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** confirming the NIST traceability of an Ultrameter II 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 (7 mS), 442-3000 (TDS), or NaCl-14.0 (mS) 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** Available in 2 oz/59 ml, 1 qt/1 L, and 1 gal/3,8 L.

MODEL: SS20Z, 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

**Hard protective case (small)**

MODEL: UPP

## Specifications

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

\*™GENERAL ELECTRIC

## Accessories

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

**Certificates** confirming the NIST traceability of an Ultrameter II 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 (7 mS), 442-3000 (TDS), or NaCl-14.0 (mS) 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** Available in 2 oz/59 ml, 1 qt/1 L, and 1 gal/3,8 L.

MODEL: SS20Z, 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

**Hard protective case (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 2 oz/59 ml. MODEL: PKU

**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 Ultrameter II's 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 Ultrameter II 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: 760-438-2021  
Fax: 800-869-7668 / 760-931-9189

[www.myronl.com](http://www.myronl.com)

