NEW! ULTRAMETER III™ 9PTKB

With innovative new in-cell conductometric titrations that make fast field analysis of alkalinity, hardness and LSI possible!

9P comes in complete kit with all necessary accessories to measure 9 parameters.

CONDUCTIVITY • RESISTIVITY • TDS
ALKALINITY • HARDNESS • SATURATION INDEX
ORP • FREE CHLORINE EQUIVALENT (FCE™)
pH • TEMPERATURE

BLUETOOTH® WIRELESS DATA TRANSFER AVAILABLE WITH bluDock™

myronl.com
Since 1957, the Myron L® Company has designed and manufactured highly accurate and 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. Some of our instruments have been in continuous use for over 50 years. Our latest digital handheld, the Ultrameter III 9P, is based on the tried and tested design of the Ultrameter II. The 9P adds the ability to perform in-cell alkalinity and hardness titrations either as stand-alone measurements or as part of an LSI calculation. Alkalinity, hardness, pH and temperature values can be manipulated in the LSI calculator to predict the effect of changes on water balance. Measurements are extremely accurate. And the 9P is simple to operate and maintain.

Features include:

- **FAST** one-touch measurements for conductivity, resistivity, TDS, ORP, free chlorine equivalent (FCE), pH and temperature
- **SIMPLE** user-intuitive prompts step you through alkalinity and hardness titrations
- **CONVENIENT** LSI Calculator accepts both grains and ppm hardness units
- **EASY** keypad calibration
- **STABLE** 4-electrode conductivity cell eliminates polarization, increasing accuracy with minimal maintenance
- **POWERFUL** microprocessor-based circuitry
- **UNIQUE** pH/ORP glass sensor is user-replaceable
- **VERSATILE** solution modes provide accuracy in diverse water quality applications
- **EFFICIENT** design features auto-off that minimizes power consumption — one 9V battery lasts up to 100 hours/5000 tests
- **ADVANCED** proprietary temperature compensation and TDS conversion algorithms
- **RELIABLE** non-volatile microprocessor provides data back-up, even when the battery is changed; this assures all calibrations and memory data are retained

**9 Parameters!**

- Conductivity • Resistivity
- TDS • Alkalinity • Hardness
- Langelier Saturation Index Calculator • pH • ORP
- Free Chlorine Equivalent (FCE)
- Temperature

**FAST READINGS • SIMPLE TO USE**

**ACCURACY YOU CAN TRUST**
NEW! FC® FAC Readings
The Myron L® Company FC® function reports FAC quickly and accurately by measuring ORP, the chemical characteristic of chlorine that directly reflects its effectiveness, cross referenced with pH. Both DPD kits and colorimeters may tell the user the FAC value of the sample in the test tube, but since the chemistry of that sample is quite different from the source water being analyzed, the results are imprecisely related to actual disinfection power. The Myron L® Company FC® function measures the real, unaltered chemistry of source water, including moment-to-moment changes in that chemistry.

In-Cell Titration Functions
The Ultrameter III adds the ability to perform in-cell conductometric titrations that provides a convenient way to determine alkalinity, hardness and LSI in the field. This eliminates the need to collect and transport samples to another location for analysis. User intuitive display prompts guide you through titration procedures from start to finish. All required reagents and equipment are included in the 9P titration kit.

Water Balance Analysis
The Ultrameter III features an LSI Calculator that allows you to calculate the LSI based on saved measurement values. This allows you to accurately calculate a saturation index value of a specific solution to determine whether the solution is balanced, scaling or corrosive. The LSI Calculator also allows you to adjust the measurement values to perform what-if scenarios to predict how changes in solution parameters would affect the water balance of a system.

Hardness Unit Conversion
The Hardness titration function allows you to set the hardness unit preference to either grains of hardness or ppm CaCO₃. The selected unit is also used in the LSI Calculator function.

Accuracy You Can Trust
Like the Ultrameter II, the Ultrameter III delivers exceptional accuracy of ±1% of reading (±.1% at calibration point). This high level of accuracy is achieved through advanced four-electrode conductivity cell technology, a powerful microprocessor, proprietary circuit design and conversion algorithms for three of the most common solution types, as well as a unique pH/ORP sensor. With displayed values of up to 9999, the full four-digit LCD ensures resolution levels never before possible in such affordable instruments.

For accuracy in diverse applications, Ultrameter III allows you to select from 3 solution modes that model the behavior of the most common solution types: KCl, NaCl and 442 Natural Water™. Additionally, the Ultrameter III features a user adjustable conductivity/TDS conversion ratio for greater accuracy when measuring solutions not contained in the microprocessor.

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

Innovative Engineering
The Ultrameter III 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, electrometric measurements are accomplished in 3 easy steps:
1. Fill the cell cup
2. Push a parameter key
3. Take the reading

Temperature compensation and range selection are both rapid and automatic. User adjustable temperature compensation (up to 9.99%/°C) can also be disabled for applications requiring non-compensated readings.

Digital results display instantly. Measurement is continuous, displaying real-time readings rather than a static snapshot of the solution.

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.

Wireless Benefits
The optional bluDock™ accessory package is an integrated data solution for your record keeping requirements, eliminating the need for additional hardware, wires and hassle. Because the user never touches the data, there is little opportunity for data tampering and human error. bluDock software, Guardian™, has an easy to use interface with user intuitive functions for storing, sorting and exporting data.

More from Myron L®
Myron L® offers a full line of water quality instrumentation for every application. Call +1-760-438-2021 or visit our website for details: www.myronl.com

BENEFITS THAT SAVE YOU TIME & MONEY

Hardness/Langelier Saturation Index Calculator allows you to determine water balance adjustments on the spot.

Easily transfer stored readings to Macintosh and PC platforms with the optional bluDock™ 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.

In-Cell titrations are simple to do. Reagent solutions are color-coded for easy recognition during procedure. Cell extender, pipette and replacement tips are included with kit.

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 III is waterproof and buoyant and can be fully immersed to 3 feet/1 meter.
Features

- Measures 9 Parameters: Conductivity, Resistivity, TDS, Alkalinity, Hardness, LSI, pH, ORP, Free Chlorine Equivalent, Temperature
- LSI Calculator for hypothetical water balance calculations
- Wireless data transfer capability with bluDock™ option
- Autoranging delivers increased resolution across diverse applications
- Adjustable Temperature Compensation and Cond/TDS conversion ratios for user-defined solutions
- Nonvolatile memory of up to 100 readings for stored data protection
- Date & time stamp makes record-keeping a snap
- pH calibration prompts alert you when maintenance is required
- Auto-off minimizes energy consumption
- Low battery indicator

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 (without cell extender): pH/ORP: 1.2 mL/0.04 oz.
- Operating/storage temperature: 0 – 55°C/32 – 132°F
- Power: 9V alkaline battery
- Battery life: >100 hours (5000 readings)
- Protection ratings: IP67/NEMA6 Waterproof to 1 m/3 ft.

Warning

These products can expose you to chemicals including Di(2-ethylhexyl)phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Conductivity</th>
<th>TDS</th>
<th>Resistivity</th>
<th>pH</th>
<th>ORP</th>
<th>Free Chlorine FC*</th>
<th>Alkalinity Titration</th>
<th>Hardness Titration</th>
<th>LSI Calculator</th>
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<tbody>
<tr>
<td>Ranges</td>
<td>0–9999 µS/cm</td>
<td>0–999 ppm</td>
<td>10 KΩ–30 MΩ</td>
<td>0–14 pH</td>
<td>±999 mV</td>
<td>0.00–9.99 ppm</td>
<td>10–800 ppm</td>
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<td>Resolution</td>
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<td>0.01&lt;100 ppm</td>
<td>0.01&lt;100 (KΩ)</td>
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<td>Accuracy</td>
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<td>±1% of reading</td>
<td>±1% of reading</td>
<td>±0.01 pH*</td>
<td>±1 mV</td>
<td>±1.00 ppm</td>
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<td>Adjustable Conductivity/ TDS Ratio Factor</td>
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AHL Titration Kit with Hard Protective Case

Includes 9P; cell extender; titration plunger; 100mL pipette; 12 tips; 3 buffers (pH 4, 7, and 10); pH/ORP Sensor Storage Solution; ORP Conditioner Solution; titration reagents H2SO4-1, HBUFF, EDTA-B-LC, EDTA-B-CH; Alkalinity Standard 100; Hardness Standard 200; Standard Solutions KCl-7000 and 442-3000. All bottles are 2 oz/59 mL. MODELS: 9PTKB, 9PTKB-BD

Accessories, Replacement Parts & Solutions

Soft Protective Case constructed of padded Nylon features a belt clip for hands-free mobility.

Limited Warranty

All Myron L® Ultrameter IIIIs 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 III only, at our discretion. Myron L® Company assumes no other responsibility or liability.

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