

UltraBasic Series

Benchtop and Portable Electrochemistry Meters



UltraBasic Meters

Precision and simple operation for laboratory or field measurements

UltraBasic Meters offer the reliability and ease of use you need from a benchtop or portable meter, with the precision you've come to expect from Denver Instrument!

Simple four-key operation. Operation is a snap! Press *standardize* to auto-recognize each buffer. Press *mode* to toggle between pH and mV. Press *setup* to clear buffers, review electrode condition or select a different buffer set. Press *enter* to select current option.

Large LCD. It only takes a quick glance at the meter to get the current measurement with the UltraBasic's extra large numeric display. Plus, the UltraBasic conveniently displays the current measurement and temperature simultaneously!

Standardization is a snap. Simply place the electrode in the first buffer. Press the *standardize* key. The meter will automatically recognize the buffer and check the electrode's efficiency. The meter is then ready to accept another buffer or begin measuring. Enter up to 3 standards for the most accurate measurements.

Graphical Display. Graphic icons on display clearly show current meter status. The measuring icon appears when the instrument is taking a reading. The stability icon is displayed when the measurement is stable. During standardization, icons show the procedure step-by-step.

Multiple modes in one meter. Simply press the *mode* key to toggle between modes. All meters feature pH mode with a resolution of 0.01 pH. The mV mode is perfect for oxidation-reduction potential (ORP) and titrations.



UltraBasic Benchtop Meter Kits. Choose a kit with the best electrode for your application.

- The Meter Kit features a low-maintenance, gel-filled epoxy-body pH combination electrode.
- The Meter with Deluxe Kit includes a liquid-filled epoxy-body pH/ATC combination electrode, electrode support arm and base.
- The Meter with Deluxe Bio Kit includes a tris-compatible liquid-filled glass-body pH/ATC combination electrode with free-flow platinum junction, electrode support arm and base.

UltraBasic Features Include:

- Simple one-button standardization
- Automatic electrode checking
- Automatic buffer recognition
- Easy entry of one to three buffers
- Simultaneous display of measurement and temperature reading (with optional ATC probe)
- Measurements to 0.01 pH or 0.1 mV (Model 10 only)
- Large display to clearly show measurement values
- BNC connector to work with standard electrodes
- Automatic temperature compensation with optional ATC or combination pH/ATC probes
- Small footprint- Benchtop meters are 9.0”L x 4.8”W x 3.1”H

**TRIS-Compatible Electrode
Perfect for Biotech Applications!**

The high performance electrode included in the UltraBasic Benchtop Deluxe Bio Kit can be used with TRIS buffers without interference, due to the isolated reference junction.

UltraBasic Portable Additional Features. UltraBasic Portable meters are ergonomically designed to fit comfortably in either hand. The sealed waterproof case with IP-67 rating, allows the meter to be fully immersed in water up to 1 meter. Perfect for field use, 9V battery operation includes automatic shut-off to prolong battery life.

Ion mode. Select the UP-25 for ion measurements. Attach any ion selective electrode with a BNC connector. Up to three standardization points can be defined and calibrated for the most accurate measurements.





UB-5 and UB-10 with Kit



UB-10 Deluxe Kit



UP-5 and UP-10 with Kit

Benchtop Models

Portable Models

| | UB-5 | UB-10 | UP-5 | UP-10 | UP-25 |
|---------------------------|---------------|------------------|---------------|------------------|------------------|
| Modes | pH/Temp | pH/mV/Temp | pH/Temp | pH/mV/Temp | pH/mV/Temp/ion |
| pH range | 0.00 - 14.00 | 0.00 - 14.00 | 0.00 - 14.00 | 0.00 - 14.00 | 0.00 - 14.00 |
| pH resolution | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| pH accuracy | 0.005 pH | 0.005 pH | 0.005 pH | 0.005 pH | 0.005 pH |
| Temperature range | 0.0 - 100.0°C | 0.0 - 100.0°C | 0.0 - 100.0°C | 0.0 - 100.0°C | 0.0 - 100.0°C |
| Temperature resolution | 0.1°C | 0.1°C | 0.1°C | 0.1°C | 0.1°C |
| Temperature accuracy | 0.2°C | 0.2°C | 0.2°C | 0.2°C | 0.2°C |
| mV range | — | -1800.0 - 1800.0 | — | -1800.0 - 1800.0 | -1800.0 - 1800.0 |
| mV resolution | — | 0.1 | — | 0.1 | 0.1 |
| mV accuracy | — | 0.2 mV or ± .05% | — | 0.2 mV or ± .05% | 0.2 mV or ± .05% |
| Relative mV mode | — | Yes | — | Yes | Yes |
| Ion range | — | — | — | — | 0 to 99900 |
| Ion resolution | — | — | — | — | 3 sig figs |
| Ion accuracy | — | — | — | — | 0.34% |
| Meter Kit | 9710.1 | 9712.1 | 9714.0 | 9716.0 | 9720.0 |
| Meter Only | 9711.1 | 9713.1 | 9715.0 | 9717.0 | 9721.0 |
| Meter with Deluxe Kit | — | 9340.1 | — | — | — |
| Meter with Deluxe Bio Kit | — | 9342.1 | — | — | — |

Meter Kit includes meter and combination pH electrode, manual and power supply.

Meter Only includes meter, manual and power supply (no electrode).

Meter with Deluxe Kit includes UB-10 meter, base, arm, combination pH/ATC electrode, manual and power supply.

Meter with Deluxe Bio-Kit includes UB-10 meter, base, arm, tris-compatible combination pH/ATC electrode, manual and power supply.

Common Specifications

| | |
|------------------------|--|
| UB weight: | 0.6 lb (0.27kg) |
| UB dimensions (LxWxH): | 9.0 x 4.8 x 3.1" (229 x 121 x 79mm) |
| UB power requirements: | 15V at 100mA, center pin (-), Adapter Included |
| UP weight: | 0.6 lb (0.27kg) |
| UP dimensions (LxWxH): | 6.5 x 4.0 x 1.3" (165 x 102 x 33mm) |
| UP power requirements: | 9V battery (included) or optional 15V adapter |

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