

pH Measurement

What is pH Measurement? The most commonly measured chemical parameter in aqueous solutions, pH is a measure of a liquid's acidity and alkalinity. It is a critical parameter in water and wastewater treatment in municipal and industrial applications, chemical production, agriculture research, and production. It is also critical in environmental monitoring, chemical and life sciences research, biochemical and pharmaceutical research, electronics production, and many more applications.



Meter Selection. Oakton offers a large selection of pH measurement instruments and kits. From pocket-sized pHTestrs®, to rugged handheld meters, to laboratory benchtop meters, Oakton has an instrument for practically any pH application.

Electrode Selection. Proper pH electrode selection is important to maximize electrode life and ensure the best possible accuracy for your application. Oakton offers a

complete selection guide with applications and specifications for pH range, temperature, and diameter for each electrode (see pages 28–33).

Calibration Buffers. All pH measurement requires calibration solutions to ensure that the readings are traceable to a standard. Oakton calibration buffers do this—and more—since they are standardized against NIST-certified references. Always choose a pH 7 buffer plus at least one other pH value close to your expected measurement range. Storage and cleaning solutions should also be used to ensure fast, reliable results from your electrodes.

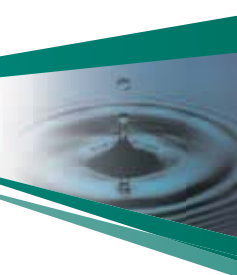


Expert Advice to Ensure the Best Results. Feel free to contact an Oakton distributor to help you choose your Oakton pH measurement products. Oakton distributors are dedicated to helping you purchase the Oakton instrument that will give you the best results.

Waterproof pHTestrs® and ORPTestrs® Selection Guide

Use this chart to find the best Testr for your application

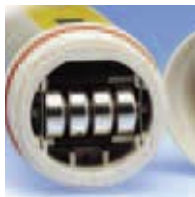
| Meter | pHTestr Basic | pHTestrs 10, 20, 30 | pHTestr 10 BNC | pH Spear | ORPTestr 10 | ORPTestr 10 BNC |
|-------------|------------------------|------------------------------|---|---------------------------------|----------------------------|---|
| | | | | | | |
| Page | 5 | 4 | 7 | 6 | 8 | 8 |
| Parameters | pH | pH and temperature | pH | pH | ORP | ORP |
| Electrode | Single-junction module | Double-junction module | Not included—use any electrode with BNC connector | Double-junction spear-tip probe | Double-junction ORP module | Not included—use any electrode with BNC connector |
| Resolution | Up to 0.01 | 0.1 | Up to 0.01 | Up to 0.01 | 1 mV | 1 mV |
| Accuracy | Up to ±0.01 | ±0.1 | Up to ±0.01 | Up to ±0.01 | ±2 mV | ±2 mV |
| Display | One-line LCD | Two-line LCD | Two-line LCD | Two-line LCD | Two-line LCD | Two-line LCD |
| Calibration | 3 points; US buffers | 3 points; US or NIST buffers | 3 points; US or NIST buffers | 3 points; US or NIST buffers | ±150 mV offset | ±150 mV offset |



It's what's inside that makes them better

Main Features

- ▼ User-replaceable sensor
- ▼ Valox® durable plastic casing
- ▼ IP67 waterproof
- ▼ Easy to use
- ▼ Quick, stable, and accurate results
- ▼ 1-year meter warranty;
6-month electrode warranty



- Battery Compartment**
- ▼ Waterproof by silicone O-ring
 - ▼ Uses common button cells
 - ▼ Encloses calibration buttons (for EC/TDS models)



- Customized LCD**
- ▼ Clear display with unit of measurement
 - ▼ Self-diagnostic messages
 - ▼ Temperature readout (selected models)



- Waterproof to IP67 Standard**
- ▼ Rugged, waterproof, and so light, it floats!
 - ▼ Unique anti-roll ribbed design ensures firm grip



- User-Replaceable Sensor Module**
- ▼ Use tester body over and over again
 - ▼ Easy plug in / plug out connection
 - ▼ Electrode modules for pH, EC/TDS, and ORP



- pH/ORP Sensor Module**
- ▼ Glass bulb of special material; tough with fast response
 - ▼ Kynar® reference junction minimizes contamination
 - ▼ Double-junction
 - ▼ Valox® plastic for improved chemical and physical durability



- EC/TDS Sensor Module**
- ▼ Two-pin stainless steel
 - ▼ Minimal bubble entrapment
 - ▼ Easy to clean



- EC/TDS+ Series Sensor Module**
- ▼ Cup-type design for scooping samples
 - ▼ Requires minimal sample volume



- Top Battery Cover**
- ▼ Easy to remove (no wires attached)
 - ▼ Eyelet for lanyard attachment

- Strong Plastic Housing**
- ▼ Chemical resistant
 - ▼ Physical durability

- ASIC Microprocessor**
- ▼ Precise and accurate calibrations
 - ▼ Fast and reliable readings
 - ▼ Sophisticated features

- Push-Button Operations**
- ▼ Simple, quick and accurate
 - ▼ Hassle-free calibration procedures

- Double Silicone O-Ring**
- ▼ Waterproof by silicone O-ring
 - ▼ Allows easy replacement of electrode module

- Protective Cap**
- ▼ Reduces contamination
 - ▼ Protects sensor

pHTestrs® 10, 20, and 30

The world's best pHTestr® now offers a larger display, with more information to make measurement easier

Unique double junction electrode design and increased reference gel volume

▼ For significantly longer electrode life, especially in harsh applications

Waterproof, dustproof housing

▼ IP67 rated, maintains the integrity of your tester even in dirty or damp field conditions. Plus, it floats!

Replaceable electrode

▼ Reuse the same meter body

Push-button calibration with auto-buffer recognition

Automatic temperature compensation, self-diagnostic error messages, Hold function, Auto-off function

Waterproof housing is great for outdoor measurements

▼ Compact size makes it easy to take these Testrs anywhere. Double junction electrode will keep working even where pollutants cause problems for other meters.

pHTestr 10 features:

▼ Three-point calibration, ±0.1 pH accuracy

pHTestr 20 features:

▼ Three-point calibration, ±0.01 pH accuracy

pHTestr 30 features:

▼ Three-point calibration, ±0.01 pH accuracy, and simultaneous temperature display

Applications

Industrial: Double-junction electrode makes these pHTestrs the best choice for chemical applications; plating baths even when heavy metals are present; wastewater where sulfides or organics will destroy an ordinary pH electrode; and process streams where mercury, copper, lead, or silver may be present.

Laboratory: Ideal for lab measurements where solvents, chemicals, or biological materials make ordinary testers or electrodes impractical. Can be used with Tris buffers.

Food: Measure pH of food, beer, wine, milk, cleaning water, rinse water, and wastewater.

A wide range of accessories for your pHTestr, including buffer solutions, are available. See page 9 to order.



Waterproof double-junction pHTestr 30 35634-30



Large LCD display



Optional calibration kit



Replaceable electrode—save money!



All Oakton® waterproof pHTestrs float!

Specifications

| Mode | pHTestr 10 | pHTestr 20 | pHTestr 30 |
|---------------------|--|-------------------|-------------------------|
| Range | -1.0 to 15.0 pH | -1.00 to 15.00 pH | -1.00 to 15.00 pH |
| Resolution | 0.1 pH | 0.01 pH | 0.01 pH |
| Accuracy | ±0.1 pH | ±0.01 pH | ±0.01 pH |
| Temperature display | — | — | 0 to 50°C (32 to 122°F) |
| Calibration | Three point at either pH 4.0, 6.86/7.0, or 9.18/10.0 | | |

Temperature compensation: automatic (ATC), from 0 to 50°C (32 to 122°F)

Operating temperature: 0 to 50°C (32 to 122°F)

Special functions: On/Off or Auto-Off after 8.5 minutes; Hold; Calibrate and Confirm

Power: four 1.5 V alkaline batteries (included), >500 hours continuous use; Eveready A761 LR44 equivalent replacement

Dimensions

Unit only: 6.5" x 1.5" dia (16.5 x 3.8 cm)
Boxed: 7.25" x 2.5" x 2" (18.4 x 6.4 x 5.0 cm)

Weight

Unit only: 3.25 oz (90 g); Boxed: 4.5 oz (125 g)

Ordering Information

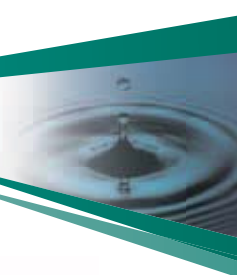
| Catalog number | Description | Included |
|----------------|-------------|---|
| WD-35634-10 | pH Testr 10 | Tester, detachable electrode sensor, and batteries |
| WD-35634-20 | pH Testr 20 | Tester, detachable electrode sensor, and batteries |
| WD-35634-30 | pH Testr 30 | Tester, electrode, detachable electrode sensors, calibration pouches, and batteries |

WD-35624-38 Replacement electrode sensor for pHTestr 10, 20, and 30

WD-35634-70 pHTestr 10 calibration kit includes Testr, "Singles" calibration pouches (two each of pH 4.01, 7.00, 10.00 and rinse water), sample jar, and sturdy carrying case

WD-35634-80 pHTestr 20 calibration kit includes Testr, "Singles" calibration pouches (two each of pH 4.01, 7.00, 10.00 and rinse water), sample jar, and sturdy carrying case

WD-35634-90 pHTestr 30 calibration kit includes Testr, "Singles" calibration pouches (two each of pH 4.01, 7.00, 10.00 and rinse water), sample jar, and sturdy carrying case



pHTestr® Basic

Waterproof and dustproof tester has a replaceable electrode...and it floats!

Waterproof, dustproof housing

▼ IP67 rated, maintains the integrity of your tester even in dirty or damp field conditions. Plus, there's no need to worry if you drop your tester into water—it floats!

Replaceable electrode

▼ Reuse the same meter body

Economical and easy to use

Push-button calibration with auto-buffer recognition

Self-diagnostic error messages, Hold function, Auto-off function

pHTestr Basic features:

▼ One-point calibration
±0.2 pH accuracy

Waterproof
pHTestr 1



Optional calibration kit available



Replaceable electrode saves money



All Oakton® waterproof pHTestrs float!



Optional soft carrying case

Applications

General: Ideal for quick and accurate pH checks in pools and spas, aquariums and hydroponics operations, or anywhere frequent pH testing is required.

Industrial: Use for cooling towers, food processing water testing and process/wastewater testing in metal finishing, photo development, printing, and chemical industries.

Educational: Useful in schools, many lab applications, and ecology studies.

Build your Own Tester Kit!

Easily mix and match Testrs, electrodes, and replacement components to get the exact kit that you need. Choose one or two Testrs, one or two replacement electrodes, buffer and rinse water pouches, and accessories. See page 9 to order.



Specifications

ISO9001:2000
CERTIFIED SUPPLIER

CE 1 year warranty

| Mode | pHTestr Basic |
|-------------|--|
| Range | -1.0 to 15.0 pH extended range |
| Resolution | 0.1 pH |
| Accuracy | ±0.2 pH |
| Calibration | One point at either pH 4.0, 7.0, or 10.0 |

Temperature compensation: none

Operating temperature: 0 to 50°C (32 to 122°F)

Special functions: On/Off or Auto-Off after 8.5 minutes; Hold; Calibrate and Confirm

Power: four 1.5 V alkaline batteries (included), >250 hours continuous use; Eveready A761 LR44 equivalent replacement

Dimensions

Unit only: 5.875"L x 1.5"W x 0.75"H (15 x 4 x 2.5 cm)

Boxed: 7.75"L x 2.75"W x 1.875"H (18.4 x 7 x 4.8 cm)

Weight

Unit only: 3.25 oz (90 g); Boxed: 6 oz (170 g)

Ordering Information

| Catalog number | Description | Included |
|----------------|----------------|---|
| WD-35634-00 | pH Testr Basic | Tester, detachable electrode sensors, and batteries |

WD-35624-09 Replacement electrode sensor for pHTestr Basic

WD-35624-70 Calibration kit includes "Singles" calibration pouches (two each of pH 4.01, 7.00, 10.00, and rinse water), sample jar, and hard carrying case. (Tester not included)

WD-09377-16 Replacement batteries, 1.5 V. Pack of 6

WD-35624-45 Soft carrying case with belt loop; stores and protects your pHTestr

pH Spear

Great for food applications!

Rugged spear tip electrode

▼ Easily penetrates soft solids and semisolids

±0.01 pH accuracy with push-button three-point calibration

▼ Calibrate at 4.01, 7.00, and 10.00. Tester automatically provides offset and two slope adjustments

Unique open-pore double junction electrode design

▼ Resists clogging and contamination

Waterproof, dustproof housing

▼ IP67 rated, maintains the integrity of your tester even in dirty or damp field conditions. Plus, there's no need to worry if you drop your tester into water—it floats!

Replaceable electrode

▼ Reuse the same meter body

Error messages, Hold function, Auto-off

Waterproof housing is great for outdoor measurements

▼ Compact size makes it easy to take this Testr anywhere. Double junction electrode will keep working even where pollutants cause problems for other meters.

Applications

Food: Open-pore sensor enclosed in a resilient engineered plastic body makes it ideal for piercing solid or semisolid food samples such as cheese, meats, ice cream, salami, bread, fruits, and similar samples.

Food Safety!

For our complete line of Oakton® food safety IR thermometers, please see our **Oakton Temperature and Humidity Catalog** or go to www.4oakton.com for details.



Waterproof pH Spear



pH Spear is perfect for a variety of food applications.



Spear tip electrode easily penetrates soft solids and semisolids

Specifications

| Mode | pH Spear |
|-------------|---|
| Range | -1.00 to 15.00 pH |
| Resolution | 0.01 pH |
| Accuracy | ±0.01 pH at normal room temperature; ±0.05 pH at extremes in temperature range |
| Calibration | Select up to three points (USA: 4.01; 7.00; 10.00 or NIST: 4.01; 6.86; 9.18) |

ISO9001:2000
CERTIFIED SUPPLIER

CE 1 year warranty

Temperature compensation: none

Operating temperature: 0 to 50°C (32 to 122°F)

Special functions: On/Off or Auto-Off after 8.5 minutes; Hold; Calibrate and Confirm

Power: four 1.5 V alkaline batteries (included), approximately 500 hours use; Eveready A761 LR44 equivalent replacement

Dimensions

Unit only: 6.5" x 1.5" dia (16.5 x 3.8 cm)

Boxed: 7.25" x 2.75" x 1.875" (18.4 x 7 x 4.8 cm)

Weight

Unit only: 3.25 oz (90 g); Boxed: 6.0 oz (170 g)

Ordering Information

| Catalog number | Description | Included |
|----------------|-------------|--|
| WD-35634-40 | pH Spear | Tester, spear tip electrode, and batteries |

WD-35634-50 Replacement electrode for pH Spear

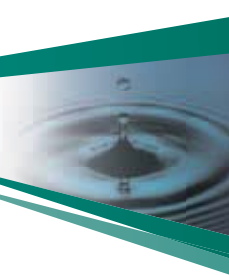
WD-35624-70 Calibration kit includes "Singles" calibration pouches (two each of pH 4.01, 7.00, 10.00, and rinse water), sample jar, and hard carrying case. (Tester not included)

WD-09377-16 Replacement batteries, 1.5 V. Pack of 6



Build your Own Tester Kit!

Easily mix and match Testrs, electrodes, and replacement components to get the exact kit you need. Choose one or two Testrs, one or two replacement electrodes, buffer and rinse water pouches, and accessories. See page 9 to order.



pHTestr® 10 BNC

Waterproof, dustproof tester connects to any pH electrode with BNC connector

Waterproof, dustproof housing

▼ IP67-rated housing, maintains the integrity of your tester even in harsh field conditions

Connects to any electrode with BNC connector

▼ Use tester in virtually any application, even highly specialized ones

Microprocessor-based functions

▼ For fast, stable readings

Push-button calibration with auto-buffer recognition; three-point calibration

▼ At pH 4.01, 7.00, and 10.00

±0.01 pH accuracy

▼ Performs like an advanced handheld meter with pocket-sized convenience

Hold function; Auto-off function; Error messages

Customize your electrode to virtually any application with the pHTestr 10 BNC. This tester connects to any electrode with a BNC connector. The IP67-rated waterproof, dustproof housing protects tester from rugged field or plant environments. It floats, so you won't lose your tester by dropping it into a tank or pond.

This tester features all push-button operation and a splash-resistant membrane keypad. Lanyard loop allows you to attach cord. Thermoplastic body offers good chemical compatibility and durability.

Applications

General: Ideal for quick and easy pH checks in most applications, including aquariums, food processing, laboratory photographic development, printing processes, hydroponics, and pool/spa water analysis. Ideal for highly specialized applications that require specially shaped electrodes—like spear tipped, flat tipped, or special diameter models.

Industrial: Great for wastewater treatment checks, water conditioning plants, coolant testing, cooling towers and plating/finishing operations, plus many other chemical process applications. Use long cabled electrodes to get into hard-to-reach places, or for checking readings from pH electrodes submersed in tanks or pipelines.

Educational: Ideal for all levels of education. Use a small-diameter electrode that fits in test tubes.

Use with direct connect or cabled electrodes



IP67-rated waterproof, dustproof housing floats. Shown with direct current electrode

A wide range of accessories for your pHTestr BNC, including calibration solutions, are available. See page 9 to order.



Tactile button keypad with positive "clicks" confirming your button selection

pHTestr 10 BNC

BNC connection lets you connect a wide variety of electrodes

ISO9001:2000 CERTIFIED SUPPLIER

CE 1 year warranty

Specifications

| Mode | pHTestr 10 BNC |
|-------------|---|
| Range | -1.00 to 15.00 pH |
| Resolution | 0.01 pH |
| Accuracy | ±0.01 pH (meter only, or when calibration and tests are at room temperature (62 to 81°F)) |
| Calibration | Select up to three points (USA: 4.01; 7.00; 10.00 or NIST: 4.01; 6.86; 9.18) |

Temperature compensation: none
 Operating temperature: 0 to 50°C (32 to 122°F)
 Special functions: On/Off or Auto-Off after 8.5 minutes; Hold; Calibrate and Confirm
 Power: four 1.5 V alkaline batteries (included), approximately 250 hours continuous use; Eveready A761 LR44 equivalent replacement

Dimensions
 Unit: 5.875"L x 1.5"W x .75"H (15 x 4 x 2.5 cm)
 Boxed: 7.75"L x 2.75"W x 1.875"H (18.4 x 7 x 4.8 cm)
Weight
 Unit: 3.25 oz (90 g); Boxed: 6 oz (170 g)

Ordering Information

| Catalog number | Description | Included |
|----------------|----------------|---|
| WD-35634-14 | pHTestr 10 BNC | Tester and batteries (Order BNC electrode separately below) |

WD-35624-70 Calibration kit includes "Singles" calibration pouches (two each of pH 4.01, 7.00, 10.00, and rinse water), sample jar, and hard carrying case. (Tester not included)

WD-09377-16 Replacement batteries, 1.5 V. Pack of 6

pH Electrodes

These cable-free electrodes plug directly into tester for easy one-handed operation. Use single-junction electrodes for clean water applications. Use double-junction electrodes for solutions with organics, sulfides, heavy metals, or high pH. All electrodes feature sealed, epoxy-body construction and BNC connector. For a wider selection of pH electrodes, including electrodes with cables, see pages 25–31.

| Catalog number | Description | pH range | Junction | Applications |
|----------------|------------------------------|----------|----------|---|
| WD-35804-00 | 12 mm dia | 0 to 12 | Single | Clean water, low ionic strength solutions. |
| WD-35804-10 | Flat surface; 12 mm dia | 0 to 12 | Single | For surface testing such as gels, food, skin, floors, concrete. For small-liquid volumes. |
| WD-35804-09 | Calomel reference; 12 mm dia | 0 to 12 | Single | Life sciences, Tris buffers, and dirty water. |
| WD-35804-08 | 12 mm dia | 0 to 14 | Double | Dirty water, high-strength solutions, has low-sodium error above pH 12. |
| WD-35804-02 | 12 mm dia | 0 to 12 | Double | Dirty water, high-strength solutions. |
| WD-35804-03 | 9 mm dia | 0 to 12 | Double | Small diameter fits test tubes. Dirty water, high-strength solutions. |

ORPTestr® 10 and ORPTestr® 10 BNC

Waterproof, dustproof tester for convenient testing of oxidation-reduction (REDOX) potential

Waterproof, dustproof housing

▼ IP67-rated housing protects your tester even in harsh field conditions

Double-junction electrode design

▼ For significantly longer electrode life, especially in applications with harsh chemicals (ORPTestr 10 only)

Microprocessor-based functions

▼ For fast, stable readings

Offset of ±150 mV

▼ Keypad adjustment to calibration solution or to an established work standard

Replaceable electrode

▼ Reuse the same tester body over and over

Hold function, Auto-off function, error messages

The microprocessor-based Oakton® ORPTestr are ideal for oxidation-reduction tests. These pocket-sized instruments are reliable over their wide -999 to +1000 mV range. The IP67-rated waterproof, dustproof housing protects your instrument from rugged field or plant environments. And it floats, so you won't lose your tester by dropping it into a tank or pond!

The waterproof ORPTestr feature microprocessor-based, all push-button operation. All functions are accessible from the keypad. Features include Hold function, Auto-off, and error messages.

Lanyard loop lets you attach a cord. Thermoplastic body offers good chemical compatibility and durability. The rugged thermoplastic body, and platinum, glass and Kynar® reference junction offer good chemical compatibility and durability. Screw cap battery compartment with tight seal ensures waterproof and dustproof protection.

Applications

General: Ideal for ORP applications, which are typically found in the -999 to +1000 mV span.

Industrial: Chromate reduction (+200 mV approx); Cyanide oxidation (+300 mV approx); Pulp bleaching (+900 mV approx)

Water treatment: Monitor ozone systems (+900 mV); Check free chlorine activity (+600 mV) in pools, spas, and cooling towers; Water purification and drinking water (+300 mV); Aquarium monitoring; Water pollution monitoring.

New



IP67-rated waterproof, dustproof housing floats!



Electrode sensors are easily replaceable without affecting waterproof rating

Tactile button keypad with positive "clicks" confirming your button selection



35650-14



35650-10

Lanyard loop on top of battery cap lets you attach a cord to prevent tester loss.

Double-junction electrode allows for long electrode life, even in harsh applications

BNC connection lets you connect a wide variety of electrodes

ISO9001:2000
CERTIFIED SUPPLIER

CE 1 year warranty meter only

Specifications

| Mode | ORPTestr |
|-------------|---|
| Range | -999 to +1000 mV |
| Resolution | 1 mV |
| Accuracy | ±2 mV |
| Calibration | Offset adjustment ±150 mV; brings ORPTestr into agreement with your work standard |

Operating temperature: 0 to 50°C (32 to 122°F)

Special functions: On/Off or Auto-Off after 8.5 minutes; Hold; Calibrate and Confirm

Power: four 1.5 V alkaline batteries (included). Eveready® A761 or LR44 equivalent replacement

Dimensions

Meter: 6.5"L x 1.5"dia (16.5 x 3.8 cm)
Boxed: 7.25"L x 2.75"W x 1.875"H (18.4 x 7 x 4.8 cm)

Weight

Meter: 3.25 oz (90 g); Boxed: 6 oz (170 g)

Ordering Information

| Catalog number | Description | Included |
|----------------|-----------------|---|
| WD-35650-10 | ORPTestr 10 | Tester with double-junction electrode module and batteries |
| WD-35650-14 | ORPTestr 10 BNC | Tester with BNC connection and batteries (electrode not included) |

Accessories

WD-35624-45 Belt-loop waterproof carrying case; holds one waterproof tester (order separately). Snap lock fastens case around your belt; Velcro® seal secures tester. Pictured at right. 5.5"L x 2"W x 7.75"H (14 x 5 x 20 cm).

WD-35650-09 Replacement electrode sensor for ORPTestr 10

WD-35805-13 ORP electrode; single junction, epoxy-body, gel-filled electrode with 3-ft cable. For use with ORPTestr 10 BNC

WD-09377-16 Replacement batteries; 1.5 V. Pack of 6





Custom Kits and Accessories

"Build Your Own" Testr® Kits

Create the kit that *you* want!

▼ Choose up to two waterproof Oakton® Testrs, then order the case and add the accessories you need

Mix or match pH and ORP Testrs

▼ Fit the parameters and ranges of your applications

Just follow these 4 easy steps:

1. Order up to two waterproof Testrs and replacement electrodes. For complete information, see page listed.

| Testr Catalog number | Model | Accuracy | Page | Electrode Catalog number |
|----------------------|------------------|-------------|------|--------------------------|
| WD-35634-00 | pHTestr® Basic | ±0.2 pH | 5 | WD-35624-09 |
| WD-35634-10 | pHTestr® 10 | ±0.1 pH | 4 | WD-35624-38 |
| WD-35634-20 | pHTestr® 20 | ±0.01 pH | 4 | WD-35624-38 |
| WD-35634-30 | pHTestr® 30 | ±0.01 pH/°C | 4 | WD-35624-38 |
| WD-35634-14* | pHTestr® 10 BNC | ±0.1 pH | 7 | WD-35804-00* |
| WD-35634-40 | pH Spear | ±0.01 pH | 6 | WD-35634-50 |
| WD-35650-10 | ORPTestr® | ±2 mV | 8 | WD-35650-09 |
| WD-35650-14* | ORPTestr® 10 BNC | ±2 mV | 8 | WD-35805-13* |

*BNC Testrs do not include an electrode; order any pH or ORP electrode with BNC connector.

2. Order a case.

WD-35653-71 Hard carrying case with foam inserts

3. Order buffer and rinse water pouches.

These pH "Singles" pouches are convenient, air-tight pouches with high-precision calibration standards. All are freshness dated, and standardized against NIST-certified references to ensure quality. ±0.01 pH at 25°C. Each box contains twenty 20-mL pouches.

| Catalog number | Description |
|----------------|--|
| WD-35653-01 | "Singles" pH 4.01 |
| WD-35653-02 | "Singles" pH 7.00 |
| WD-35653-03 | "Singles" pH 10.00 |
| WD-35653-00 | "Singles" deionized rinse water pouches |
| WD-35653-04 | "Singles" assortment; five each of pH 4.01, 7.00, 10.00, rinse water |

4. Order additional accessories.

| Catalog number | Description |
|----------------|---|
| WD-06758-49 | Sample bottle; HDPE, 30 mL |
| WD-35624-45 | Soft carrying case, holds one tester and buffer pouches (order separately). Snap lock fastens case around your belt; Velcro® seal secures tester. 5.5"L x 2"W x 7.75"H (14 x 5 x 20 cm) |
| WD-09377-16 | Replacement batteries, 1.5 V. Pack of 6 |



35625-45

Pick your components...

and build a custom kit that contains everything you need for pH and ORP testing and calibration!

Or, just pick your Testrs to add to this convenient pre-made kit

WD-35624-70 Deluxe field tester kit includes two "Singles" each of pH 4.01, 7.00, 10.00 and rinse solution; one sample jar; and sturdy carrying case

TDS and Conductivity custom kits are also available. See page 37.

pH Solution Bottles

Labeled with pH vs temperature tables for accurate calibration reference NIST traceable

Oakton® pH buffer solution bottles are labeled with the name and CAS number for all ingredients (for "Right-to-Know" requirements), and are supplied with an MSDS (Material Safety Data Sheet). Economical one-pint bottle.

Convenient, individually sealed pH "Singles" buffer pouches are available above. Electrode care solutions are on page 32.

Ordering Information

| Catalog number | Description |
|----------------|--------------------------|
| WD-00654-01 | Buffer solution pH 1.68 |
| WD-00654-00 | Buffer solution pH 4.01 |
| WD-00654-04 | Buffer solution pH 7.00 |
| WD-00654-08 | Buffer solution pH 10.00 |
| WD-00654-12 | Buffer solution pH 12.45 |



00654-00

pH Buffer Solutions

Labeled with pH vs temperature tables for accurate calibration reference

Economical one-pint buffer solution bottles are freshness dated, and standardized against NIST-certified references to ensure quality. Bottles are labeled with the name and CAS number for all ingredients (for "Right-to-Know" requirements). The high-accuracy solutions are ideal for pH meters with 0.001 resolution.



00654-00

Ordering Information

| Catalog number | Description | Accuracy at 25°C |
|----------------|-----------------------------------|------------------|
| WD-00654-01 | Buffer solution, pH 1.68 | ±0.01 pH |
| WD-00654-00 | Buffer solution, pH 4.01 | ±0.01 pH |
| WD-00654-04 | Buffer solution, pH 7.00 | ±0.01 pH |
| WD-00654-08 | Buffer solution, pH 10.00 | ±0.01 pH |
| WD-00654-12 | Buffer solution, pH 12.45 | ±0.01 pH |
| WD-05942-26 | High-accuracy solution, pH 4.000 | ±0.002 pH |
| WD-05942-46 | High-accuracy solution, pH 7.000 | ±0.002 pH |
| WD-05942-66 | High-accuracy solution, pH 10.000 | ±0.005 pH |

pH "Singles" Buffer Pouches

Convenient and accurate

Single-use, air-tight pouches with high-precision calibration standards. All are freshness dated, and standardized against NIST-certified references to ensure quality. Accuracy is ±0.01 pH at 25°C. Each box contains twenty 20-mL pouches.



Freshness-dated Singles ensure more accurate results.

Ordering Information

| Catalog number | Description |
|----------------|--|
| WD-35653-01 | "Singles" pH 4.01 |
| WD-35653-02 | "Singles" pH 7.00 |
| WD-35653-03 | "Singles" pH 10.00 |
| WD-35653-00 | "Singles" deionized rinse water pouches |
| WD-35653-04 | "Singles" assortment; five each of pH 4.01, 7.00, 10.00, and rinse water |

Precision pH/mV Simulator

Ideal for testing benchtop or handheld meters, controllers, and transmitters!

Simulate any of following pH values: 1.00, 1.68, 4.01 6.86, 7.00, 9.18, 10.01 and 12.45; and any of following mV values: -1800, -900, -390, 390, 900, and 1800.



Ordering Information

| Catalog number | Description | Includes |
|----------------|-----------------|--|
| WD-35652-00 | pH/mV simulator | Simulator, protective rubber boot, 3-ft cable with BNC connectors, and batteries |

pH Electrode Care Solutions

Extend the life of your electrode!

Use these solutions to extend the life of your electrode, increase speed of response, and get accurate readings. Electrodes should be cleaned or rinsed between sampling. Always keep your electrode moist by storing it in a solution when not in use. When adding fill solution, fill up to, but not past, the refill hole.



00653-06

00653-04

Ordering Information

| Catalog number | Description |
|----------------|---|
| WD-00653-06 | pH/ORP electrode cleaning solution, one pint. Removes buildup from electrodes to maintain bulb sensitivity. |
| WD-00653-04 | pH electrode storage solution, one pint. Use with storage bottle (sold separately below table); keep bulb moist for quicker, more accurate pH readings. |
| WD-35803-73 | Reference fill solution for single-junction pH electrodes. 4M KCl saturated with AgCl, 125 mL |
| WD-35803-74 | Reference fill solution for double-junction or calomel reference refillable pH electrodes. 4M KCl, 125 mL |
| WD-35803-83 | Reference fill solution, Lithium chloride (LiCl)/methanol, for double-junction refillable pH electrodes. Use where organics are present. 125 mL |
| WD-35803-84 | Reference fill solution, KCl with glycerol, for double-junction refillable pH electrodes. Use for low-temperature samples. 125 mL |

WD-35805-50 Electrode storage bottle accepts one electrode up to 12-mm dia

Portable Printer

Use with pH 1100 and pH/ION 2100 meters

Create permanent records of your data from Oakton® meters with RS-232 output! This printer's compact size and rechargeable battery pack make it the perfect printer for both field use and crowded benchtop space. Pre-configured setup selections match the exact parameters of your meter. Printer accepts standard-sized adding machine rolls and printer ribbons; order separately below table.



Ordering Information

| Catalog number | Description | Power |
|----------------|------------------|---------|
| WD-35622-00 | Portable printer | 110 VAC |
| WD-35622-05 | | 220 VAC |

WD-35622-59 Printer cable, connects printer to your pH 1100 or pH/ION 2100 meter (or other meters with RS-232 output)

WD-35622-60 Replacement ribbon cartridge

WD-35622-62 Replacement paper roll

NOVA-TECH
INTERNATIONAL

800 Rockmead Dr Ste 102 • Houston, TX 77339-2112
Tel: (281) 359-8538 • Toll Free Tel: (866) 433-6682
Fax: (281) 359-0084 • Toll Free Fax: (866) 433-6684
sales@novatech-usa.com • www.novatech-usa.com