OAKTON®

pH/mV/°C

pH 500 Meter

Our most economical benchtop meter—a new standard in its price range! The large dual display shows pH or mV, plus temperature.

Low cost plus high performance
this meter offers laboratory-quality readings for a very economical cost

Dual display shows both pH (or mV) and temperature
plus mode indicators and annunciators to signal meter status

Three point pH calibration with auto buffer recognition
calibrate at 4.01, 7.00 and 10.00 for high accuracy across the entire measuring range

Switch from pH to mV readings with a button press

Features 0.1 mV resolution for ORP and ISE measurements
this is the only meter in its price class that offers 0.1 mV resolution—a requirement for ISE readings

Selectable manual or automatic temperature compensation
for high accuracy with or without a temperature sensor

Analog recorder output
create hard copies of your readings

Hold function
freezes reading until you can record it

"Ready" indicator
shows when the reading is stable

Ideal for student use
this easy-to-use meter is so economical, you'll want several for your lab!

Fully diagrammed manual, plus slide-out instruction card for quick reference

ISO 9001 Vendor CERTIFIED

CE

3 year warranty
meter only







Top: The pH 500 meter is designed for laboratory benchtop use. It is less sensitive to electronic noise, which gives you stable, repeatable readings.
Bottom left: Use the recorder output to create hard copy records of your data.
Bottom right: This simple-to-use meter is ideal for routine measurements or student use.

Laboratory benchtop readings at an economical price! The pH 500 meter provides stable, accurate measurements in pH, mV and temperature. It has high 0.1 mV resolution for ORP and ISE measurements—it's the only meter in its price class to offer this feature. Since this meter so easy to use, you'll be ready to take readings in minutes!

The pH 500 meter features a large dual display that shows pH (or mV) and temperature readings, and a water-resistant membrane keypad. It includes a slide-out instruction card that stores underneath the meter for quick reference.

The pH 500 meter is supported by a full selection of OAKTON calibration buffers, electrodes and accessories. See the back of this sheet for ordering information and complete specifications.

pH 500 Benchtop Meter

Large dual display shows pH or mV plus temperature readings, and indicators which signal function and meter status.



Back panel has quick connections for electrode, ATC probe, and recorder output.



Slide-out instruction card with trouble shooting tips and a keypad reference stores neatly at bottom of meter.



Sturdy benchtop electrode holder keeps your probe steady and away from the sides of your container (order separately).



Calibration solutions are available in economical bottles or convenient pouches with a tear-off top (order separately).



• Applications •

General Applications: Ideal for all kinds of water quality and chemical testing in the laboratory. Suitable for most ASTM and EPA test procedures.

Education Applications: Ideal for students at all levels; suitable for all types of chemistry lab and ecology studies.

Industrial Applications: Boiling water/cooling water testing, food processing water testing, process and wastewater testing in metal finishing, printing and chemical industries. Also used in aquarium and hydroponics industries.

• Specifications •

Type	pH	mV	Temperature
Range	0.00 to 14.00 pH	±400 mV and ±1999 mV	0 to 100°C
Resolution	0.01 pH	0.1 mV from ±400 mV, 1 mV beyond ±400 mV	0.1°C
Accuracy	±0.01 pH	±0.2 mV from ±400 mV,±2 mV beyond ±400 mV	0.5°C
Calibration	Up to three calibration points (4.01, 7.00, 10.00)	—	Offset up to ±5°C
Connectors	BNC	BNC	mini phono plug

Power: 9 VDC, 500 mA; using AC adapter (included); choose from 110 VAC, 60 Hz or 220 VAC, 50 Hz models. AC adapter is CSA and UL listed.

Input impedance: $>10^{12}\ \Omega$

Temperature Compensation: Selectable Manual or Automatic from 0 to 100°C

Recorder output: ±1999 mV (directly proportional to input)

Recorder output connector: mini pin (subminiature phono plug)

Display: Dual display of measurement with temperature and mode annunciators

Error messages: Diagnose operator error, electrode error, and meter error. Pull-out instruction card decodes message

Operating Temperature: 0 to 50°C, non condensing humidity

Dimensions:
Meter: 9" x 7" x 2.375" (23 x 18 x 6 cm)
Boxed: 15.5" x 10" x 3.5" (39 x 25 x 9 cm)

Weight: Meter only 1.25 lbs (0.6 kg); Boxed 3 lbs (1.4 kg)

• Ordering Information •

pH 500 Meters

All meters include AC adapter and instructions.

Meter only

WD-35617-02 pH 500 meter, 110 VAC

WD-35617-07 pH 500 meter, 220 VAC

Meter with single-junction pH electrode (WD-35801-00) and separate temperature probe (WD-35615-05)

WD-35617-00 pH 500 meter, 110 VAC

WD-35617-05 pH 500 meter, 220 VAC

Meter with "All in One" combination temperature sensor/ single-junction pH electrode (WD-35801-71)

WD-35617-03 pH 500 meter, 110 VAC

WD-35617-08 pH 500 meter, 220 VAC

pH "Singles" Calibration Buffer Pouches

Each single-use pouch contains 20 ml of fresh calibration solution (see picture below left). ±0.01 pH accuracy at 25°C. Certified to NIST traceable standards. Shpg wt 1 lb (0.5 kg). Box of 20.

WD-35653-01 pH "Singles", 4.01

WD-35653-02 pH "Singles", 7.00

WD-35653-03 pH "Singles", 10.00

WD-35653-00 pH "Singles", rinse water

WD-35653-04 pH "Singles", assortment pack, 5 each of pH 4.01; 7.00; 10.00 and rinse water

pH Calibration Buffer Solution Bottles

1 pint of calibration solution each. ±0.01 pH accuracy at 25°C. Certified to NIST traceable standards. Shpg wt 1.3 lbs (0.6 kg).

WD-00654-00 pH 4.01 calibration buffer

WD-00654-04 pH 7.01 calibration buffer

WD-00654-08 pH 10.01 calibration buffer

Electrodes

WD-35805-04 Laboratory pH electrode, double junction, glass body, refillable. 110 mm x 12 mm dia.

WD-35801-00 pH electrode, single junction; epoxy body, 146 mm L x 12 mm dia

WD-35615-05 Temperature (ATC) probe, 304 SS, 85 mm L

WD-35801-71 "All-in-One" combination pH/temperature probe, single junction, epoxy body, 147 x 12 mm dia

WD-35801-72 "All-in-One" combination pH/temperature probe, double junction, epoxy body, 147 x 12 mm dia

WD-35805-13 ORP electrode, single junction, epoxy body, 146 mm L x 12 mm dia

WD-35805-15 ORP electrode, double junction, epoxy body, 146 mm L x 12 mm dia

WD-35617-50 Benchtop electrode holder, 360° pivot, holds four electrodes (up to 12 mm dia) and temperature probe. Box dimensions: 9"L x 15"W x 10"H. Shpg wt 4 lbs

OAKTON offers a wide selection of pH and ORP electrodes; contact your OAKTON distributor for more information.

• ORDER FROM •

Bulletin pH C1R2

Printed in the U.S.A. 8/01. OAKTON TM Reg. #1,692,543. Patent Des. 371,748. We reserve the right to make changes, improvements and modifications to products shown. All prices subject to change without notice. OAKTON Instruments are available only through authorized OAKTON distributors.