OAKTON®

pH/mV/Ion/°C

pH 2500 Meter

No more conversion charts—this economical meter has a direct concentration mode! It's ideal for a wide variety of ion measurements.

Ion concentration mode
with direct display of ion selective values in ppm, ppt, % or any other units of your choice

Features RS-232/printer output
meter manually or automatically downloads data to a printer, or to a computer in a form ready to import into spreadsheet software!

Sends readings on programmed time intervals
select intervals from 1 min to 23 hrs, 59 min

Select up to five customizable calibration points
choose your own calibration points, or use the built-in auto buffer recognition of five common pH buffers for faster calibration

Calculates slope and offset of electrode automatically
check electrode quality and conform to standard test method quality checks

Displays last calibration date and time
ideal for GLP compliance

High/low set point alarms
signal readings outside your preset limits or when your timed reaction has ended

Stores up to 13 sets of readings with date and time into memory
store readings either manually or on programmable real-time intervals from 1 min to 23 hrs, 59 min—download them later

Built-in real time clock

Selectable 0.01/0.1 pH resolution
0.01 for more precise readings and 0.1 for faster readings

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

Selectable "Ready" indicator; Hold function

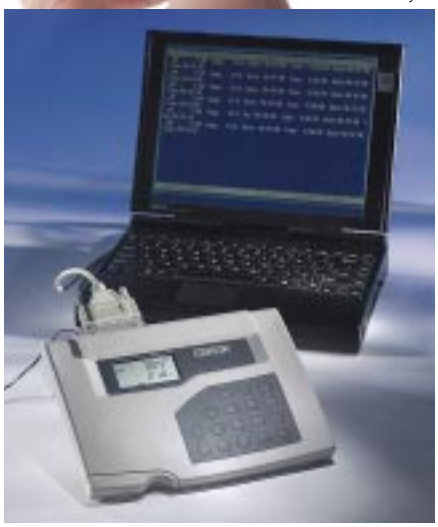


ISO 9001 vendor CERTIFIED

CE

3 year warranty
meter only





Top: The pH 2500 meter is designed for laboratory benchtop use. It is less sensitive to electronic noise, which gives you more stable, repeatable readings.

Lower left: Use this meter with an optional portable printer to provide you with a printed record of your readings and calibration data.

Lower right: Connect the pH 2500 meter to your PC and download data in a format ideal for importing into spreadsheet software.

The OAKTON pH 2500 meter reads ion concentration readings directly—for the best price in its class! Use this meter to document large volumes of critical ISE, pH or mV data sets. Each data set includes the measurement plus temperature, date and time. The RS-232 feature lets you send measurements to a printer or PC with one press of a button, or at preset time intervals. The meter comes with free software that allows you to download data to your computer in a format easy to import into spreadsheet software.

The pH 2500 meter features a large dual display that shows pH, ion or mV plus 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 2500 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.

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



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



Slide-out instruction card with abbreviated keypad functions stores neatly below meter.



Compact, rechargeable portable printer lets you document readings and calibration information (order separately).



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



pH 2500 Benchtop Meter

• Applications •

ISE Applications: Use this meter with any of 20 types of ISE electrodes to take direct measurements of ion concentration. Titration methods allow measurement of many other types of ions.

Laboratory / Industrial Applications: Use for water quality testing, sewage treatment, soil testing, fertilizer testing, plant tissue testing, food processing (for HACCP compliance), geological testing, and metal plating. Also use in the paper/pulp or pharmaceutical industries. Suitable for most ASTM and EPA test procedures.

ORP Applications: Use with ORP electrode (model WD-35805-13; order below) to monitor plating operations, ozonation system efficiency, and other redox measurements.

• Specifications •

Type	pH	mV	Ion	Temperature
Range	–2.00 to 15.99 pH	±2000 mV or relative mV	0 to 9999 concentration units	–10 to 110°C
Resolution	0.01 pH or 0.1 pH (selectable)	0.1 mV from ±999.9 mV, 1 mV beyond ±999.9 mV	±1 least significant digit	0.1°C
Accuracy	±0.01 pH	±0.2 mV from ±999.9 mV, ±1 mV beyond ±999.9 mV	±0.5% of reading	±0.5°C
Calibration	Up to five customizable calibration points, or use auto buffer recognition at pH 1.68, 4.01, 7.00, 10.00, 12.45	Offset up to ±2000 mV	Up to five customizable calibration points	Offset up to ±5°C
Connectors	BNC	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

pH slope adjustment range: 80 to 120%

Recorder output: ±2000 mV (proportional to input)

RS-232 specifications: Baud rate: 9.6 kbps. Stop bit: 1. Parity: odd (1).

Computer requirements: 386 and above that can run Microsoft Windows® 95 or higher, hard disk with approx. 500 KB free disk space, EGA monitor or above, 9-pin serial port connecting cable, mouse.

Printer requirements: Accepts serial output as per RS-232 specifications

Output connectors:
Recorder: mini-pin (submini phono plug)
RS-232/printer: 9 pin female

Display: Dual display of measurement (ion, pH, mV or relative mV) plus 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 2500 Meters

Each meter includes AC adapter, software, and instructions.

Meter only

WD-35620-12 pH 2500 meter, 110 VAC, 60 Hz

WD-35620-17 pH 2500 meter, 220 VAC, 50 Hz

Meter with temperature probe (WD-35615-05) only

WD-35620-11 pH 2500 meter, 110 VAC, 60 Hz

WD-35620-16 pH 2500 meter, 220 VAC, 50 Hz

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

WD-35620-10 pH 2500 meter, 110 VAC, 60 Hz

WD-35620-15 pH 2500 meter, 220 VAC, 50 Hz

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

WD-35620-13 pH 2500 meter, 110 VAC, 60 Hz

WD-35620-18 pH 2500 meter, 220 VAC, 50 Hz

pH "Singles" Calibration Buffer Pouches

Single-use pouches contain 20 ml of fresh calibration solution. ±0.01 pH accuracy at 25°C. Certified to NIST traceable standards. Box of 20.

WD-35653-01 pH "Singles", 4.01

WD-35653-02 pH "Singles", 7.00

WD-35653-03 pH "Singles", 10.00

Accessories

WD-35622-00 Portable printer, 110 VAC

WD-35622-05 Portable printer, 220 VAC

WD-35617-50 Benchtop electrode holder, 360° pivot, holds four electrodes (up to 12 mm dia.) and temperature probe

pH and ORP 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, 114 mm L

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

WD-35805-13 ORP electrode, single junction, epoxy body. 147 mm L x 12 mm dia

ISE Electrodes

These epoxy body electrodes feature a BNC connector. All include 15 ml of reference electrolyte and a filling pipette. Shpg wt: 0.5 lb. OAKTON offers ISE solution kits for each electrode and other ISE electrodes—contact your OAKTON distributor for more information.

WD-35802-00 Ammonia (NH_3) electrode, single junction

WD-35812-02 Ammonium (NH_4^+) electrode, double junction

WD-35812-12 Chloride (Cl^-) electrode, double junction

WD-35812-18 Fluoride (F^-) electrode, double junction

WD-35812-30 Nitrate (NO_3^-) electrode, double junction

WD-35812-42 Sodium (Na^+) electrode, double junction

WD-35812-48 Water hardness (Ca^{+2}, Mg^{+2}) electrode, double junction

WD-35802-40 Silver (Ag^+) electrode, single junction

WD-35802-22 Iodide (I^-) electrode, single junction

WD-35802-24 Lead (Pb^{+2}) electrode, single junction

WD-35802-14 Copper (Cu^{+2}) electrode, single junction

OAKTON offers many other pH and ORP electrodes—contact your OAKTON distributor for more information.

• ORDER FROM •

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