OAKTON®

pH/mV/°C

pH 100 Meter

RS-232/printer output lets you send data to your computer or printer; advanced set up mode lets you customize meter functions!

RS-232/printer output
to download data to a computer or printer

Free OAKTON PC Datalog Assist Software on a 3.5" disk
helps organize data into a usable format ready to import into most popular spreadsheet programs

Up to five-point pH calibration
at pH 1.68, 4.01, 7.00, 10.01, 12.45

Recall electrode slope, electrode offset value and previous calibration data
to assure accurate, consistent readings and electrode condition

Automatic buffer recognition
identifies the correct pH buffer values for quick pH calibration

Features mV offset
for calibration to ORP standards and for zeroing the mV value

Built-in memory function
Meter stores up to 16 pH, mV or relative mV readings with corresponding temperature data, which is ideal for readings in the field

Selectable Manual or Automatic Temperature Compensation
for highest accuracy in any situation

Hold function; Error messages; Auto-off after 30 minutes of non-use saves batteries

Power with batteries or optional AC adapter
for use in the field or at your benchtop

Calibration kits available
come complete with everything you need for calibration, measurement, transportation and storage of your portable meter



2 year warranty
meter only

CE

ISO 9001 Vendor CERTIFIED



Above: pH 100 portable meter shown with "All-in-One" combination pH electrode/temperature sensor.

Top right: The pH 100 meter downloads readings into your computer.

Middle right: Use an OAKTON printer with the pH 100 meter to create hard copies of your readings.

Lower right: Deluxe pH meter kits contain everything you need for calibration and measurement.

Easily track and review large volumes of pH, mV and temperature data! The pH 100 meter with RS-232 output downloads readings to your computer or printer. Free software organizes data into a format easy to import into popular spreadsheet programs. Advanced setup mode lets you display previous pH, mV, and temperature calibration data; set pH resolution (0.1 or 0.01 pH); select Ready indicator and Auto-Off function; and more!

The pH 100 's ergonomic design fits comfortably in your hand. Use the electrode bracket to position electrode for one-handed operation. Electrode cable holder conveniently stores electrode cable behind the meter.

The pH 100 portable meter is supported by a full selection of OAKTON calibration buffers and accessories. See the back of this sheet for ordering information and complete specifications.

Large dual LCD shows measurement plus temperature, units and current function.



Electrode bracket positions electrode for one-handed use.



Built-in meter stand for tabletop use.



Portable printer connects to the pH 100 meter and provides a hard copy of readings (sold separately).



Belt loop carrying case protects your meter from the elements while in use.



Meter kits store and organize all the components you need for fast, consistent calibration and measurement.



pH 100 Meter

• Applications •

Industrial Applications: Ideal for pH checks in water conditioning plants, cooling towers, plating and finishing operations, food processing water testing (for HACCP compliance), printing and chemical industries. and water and waste water treatment analysis.

Environmental/Agricultural Applications: Use in ecology studies, aquariums, and hydroponics.

Laboratory Applications: Use in all types of food processing, environmental studies, chemical labs, titrations, and quality assurance testing, especially where GLP data management is required.

ORP Applications: Use with an ORP electrode to monitor plating operations, ozonation system efficiency, and other redox measurements.

• Specifications •

	pH	Temperature	mV
Range	–2.00 to 16.00	0 to 100.0°C	±2000 mV (same for relative mV)
Resolution	0.01 and 0.1 pH (selectable)	0.1°C	0.1mV ±399.9 mV; 1mV beyond
Accuracy	±0.01 pH	±0.5°C	±0.2mV ±399.9 mV; 2mV beyond
Calibration	Up to 5 buffer values: 1.68, 4.01, 7.01, 10.01; 12.45	Offset 0.1°C increments	Offset up to ±2000mV

Temperature Compensation:
Automatic or Manual (selectable) from 0 to 100°C

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

Memory: Stores up to 16 sets

Power: 4 x 1.5 V AAA batteries, >50 hours continuous use; 9 V, 500 mA AC adapter (optional)

Dimensions: Meter: 7.5" x 3.5" x 1.75" (19 x 9 x 4.5 cm); Boxed: 9.2" x 9.2" x 2.75" (23 x 23 x 7 cm)

Weight: Meter: 1.0 lb (0.5 kg); Boxed: 1.4 lbs (0.6 kg)

RS-232 specifications: Baud rate: 2.4; 4.8; 9.6 and 19.2 kbps selectable. Stop bit: 1 or 2 selectable. Parity: odd (1); even (2); or none (0) selectable.

RS-232 output connector: 9 pin female.

Computer requirements: 386 and above that can run Microsoft Windows® 95 or higher, a 3.5" (1.44 MB) disk drive, hard disk with approx. 500 KB free disk space, EGA monitor or above, 9-pin serial port connecting cable, mouse

• Ordering Information •

pH 100 Meter

All meters include operating instructions, batteries, 2 electrode holders and PC Datalog Assist Software. Shpg wt 1.4 lb (0.6 kg).

Meter only
WD-35615-02 pH 100 meter

Meter with temperature probe (WD-35615-05)
WD-35615-01 pH 100 meter

Meter with pH electrode (WD-35801-00) and temperature probe (WD-35615-05)
WD-35615-00 pH 100 meter

Meter with "All-in-One" pH/temperature probe (WD-35801-71)
WD-35615-03 pH 100 meter

Meter kit. Kit contains meter plus "All-in-One" pH/temperature probe, 20 pH "Singles" pouches, sample bottle and hard carrying case. Shpg wt 2.0 lb (0.9 kg).

WD-35615-70 pH 100 meter kit
WD-35614-79 Kit without meter

pH "Singles" Calibration Buffer Pouches

Each single-use pouch contains 20 ml of fresh calibration solution. ±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 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-00654-01 pH 1.68 calibration buffer
WD-00654-00 pH 4.01 calibration buffer
WD-00654-04 pH 7.00 calibration buffer
WD-00654-08 pH 10.00 calibration buffer
WD-00654-12 pH 12.45 calibration buffer

Electrodes

Electrode shpg wt 0.5 lb (0.2 kg) each.

WD-35801-00 Replacement pH electrode, epoxy body, single junction, 5.2"L x 0.5" OD (12 mm)
WD-35615-05 Replacement temperature probe, 316 SS, 3" cable, polypropylene cap
WD-35801-71 Replacement "All-in-One" combination pH/temperature probe, epoxy body, single junction, sealed, 5.75"L x 0.5" OD (12 mm)
WD-35805-01 pH electrode, epoxy body, double junction, 5.2"L x 0.5" OD (12 mm)
WD-35801-72 "All-in-One" combination pH/temperature probe, double junction, sealed, 5.75"L x 0.5" OD (12 mm)
WD-35805-13 ORP electrode, epoxy body, single junction, 5.75"L x 0.5" OD (12.5 mm)
WD-35805-15 ORP electrode, epoxy body, double junction, 5.75"L x 0.5" OD (12.5 mm)

Accessories

WD-35615-07 AC adapter, 110 VAC
WD-35615-08 AC adapter, 220 VAC
WD-09376-00 Replacement batteries, 1.5 V AAA. Pack of 12
WD-35615-75 Portable meter carrying case. Protects your instrument while still letting you take measurements—case's top and side openings let probe and probe connections remain accessible. Shpg wt 1 lb (0.5 kg)

RS-232 Computer/Printer Accessories

WD-35622-00 Portable printer, 110 VAC, rechargeable. Shpg wt 2 lbs (0.9 kg)
WD-35622-05 Portable printer, 220 VAC, rechargeable. Shpg wt 2 lbs (0.9 kg)
WD-35615-09 Computer cable, 9-pin male
WD-35622-59 Printer cable, 25-pin.

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

• ORDER FROM •

Bulletin pH B4R2

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