



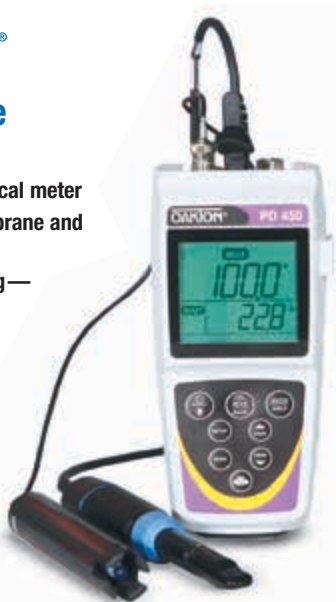
Oakton® PD 450 Portable pH/mV/DO Meters

- Measure pH and DO with one economical meter
- Advanced RDO probe eliminates membrane and solution maintenance
- Durable IP67-rated waterproof housing— it floats!

Oakton's PD 450 offers advanced features at an economical price. Use it with any pH electrode featuring a BNC connector. Automatic buffer recognition quickly identifies the correct pH buffer for rapid calibration; calibrate with up to six points from USA, NIST, DIN or custom buffers. The low-maintenance RDO probe is easy to take care of—simply change the sensor cap once a year.

Large backlit LCD screen displays your main measurement, complete with temperature and calibration data (including % slope). Ready, hold and low-battery indicators; visible recalibration reminder; auto shutoff function and easy-to-navigate menus ensure user-friendly operation. Temperature compensation can be set to manual or automatic to best fit your needs. Make barometric pressure and salinity corrections manually.

Includes: double-junction pH electrode, RDO probe, sensor cap, two AA batteries and a manual.



Hach HQ1110 Digital Portable pH/ORP/mV Meters



- Uses IntelliCAL probes— move probes between meters without recalibrating
- Rugged, waterproof IP67 housing

NEW!

These meters deliver superior accuracy and data handling in the lab and field. Intuitive interface features illustrated, guided calibration and built-in troubleshooting for successful calibration and accurate measurements every time. pH buffer recognition is automatic with selectable USA, IUPAC or DIN buffer sets, or create your own custom sets.

Meters measure pH and ORP using Hach IntelliCAL smart probes (sold separately or included with meter kits). The TFT color display shows your measurement, along with temperature, calibration status, date and time in one of 15 languages. An antiglare surface and backlighting allow for viewing in any light conditions.

Automatically or manually log up to 5000 measurements, along with probe serial numbers, current calibration data, user ID, sample ID, time and date. A USB port lets you download data to a PC or flash drive.

Meter Only includes: Li-Ion batteries, USB wall charger, USB A to micro B cable (5.9-ft long), wrist strap and manuals. **Meter Kits also include:** IntelliCAL pH probe, carrying case, box of 280 wipers, three 90-mL containers and 60 packs of Singlet® pH buffer (20 each of pH 4.01, 7.00 and 10.01). 1-year meter warranty.



pH	
Range:	-2 to 16 pH
Resolution:	0.01 pH
Accuracy:	±0.01 pH
Calibration points:	up to 6
mV	
Range:	±2000 mV
Resolution:	0.1 mV for ±999.9; 1 mV beyond
Accuracy:	±0.2 mV +2 LSD or 5% of reading (whichever is greater)
DO (mg/L)	
Range:	0 to 20 mg/L
Resolution:	0.1 mg/L
Accuracy:	±2%
DO (% saturation)	
Range:	0 to 200%
Resolution:	0.10%
Accuracy:	±2%
Temperature	
Range:	-10.0 to 110.0°C (-17.0 to 230.0°F)
Resolution:	0.01°C
Accuracy:	0.1°C/°F

pH	
Range:	0 to 14 pH
Resolution:	0.001/0.01/0.1 pH
Accuracy:	±0.02 pH
mV	
Range:	±1200.0 mV
Resolution:	0.1 mV
Accuracy:	±0.02 mV or 0.05% (whichever is greater)
Calibration points:	up to 3
Temperature	
Range:	-10.0 to 110.0°C
Resolution:	0.1°C
Accuracy:	±0.3°C
Slope calculation & display:	yes
Memory function:	5000 data sets
Data output:	USB
Power:	rechargeable Li-Ion battery (~140 hrs/charge)



DESCRIPTION	STOCK #	EACH
pH/mV/RDO 450 Meter with pH Electrode and RDO Probe	94135	\$
REPLACEMENT ELECTRODES/PROBES		
pH Electrode w/ ATC, Single Junction, Epoxy, BNC Connector, 3'L Cable	94139	\$
pH Electrode, Single Junction, Epoxy, BNC Connector, 10'L Cable	33267	
pH Electrode, Double Junction, Epoxy, BNC Connector, 3'L Cable	94140	
RDO Probe, 10'L Cable	94144	
RDO Probe, 20'L Cable	94145	
RDO Probe, 50'L Cable	94146	
REPLACEMENT ITEMS & ACCESSORIES		
Replacement RDO Sensor Cap	94147	\$
USABlueBook Buffer Pack (One Pint Each pH 4, 7, 10 and Electrode Storage Solution)	40435	
RDO Weight	94148	
Data Cable for USB Connection	94149	
Power Adapter, 110/220 VAC	94150	
Duracell® Coppertop Batteries, AA, Pack of 8	63187	
Rayovac® Ultra Pro Alkaline Batteries, AA, Pack of 24	13430	

HQ1110 pH/ORP/mV Meters & Meter Kits

MFR #	DESCRIPTION	STOCK #	EACH
LEV015.53.1110A	Meter Only (Order Probe Separately)	90584	\$
LEV015.53.11101	Meter with Clean Water pH Probe (PHC20101)	90586	
LEV015.53.11102	Meter with Wastewater pH Probe (PHC10101)	90587	

IntelliCAL Probes*

IntelliCAL probes store their own testing parameters, calibration history and settings. HQ meters recognize each probe so you can move probes between meters without recalibrating. Choose from standard probes with 1-m cable or rugged probes with 5-m cable. Rugged probes are waterproof to 30 meters.

MFR #	DESCRIPTION	STOCK #	EACH
STANDARD PROBES			
PHC20101	pH Probe, Single Junction, Gel-Filled, ATC (Clean Water)	37824	\$
PHC10101	pH Probe, Double Junction, Gel-Filled, ATC (Wastewater)	37771	
MTC10101	Standard ORP Probe, Double Junction, Gel-Filled	37728	
MTC30101	Standard ORP Probe, Double Junction, Refillable	37729	

RUGGED PROBES (IP68 SS BODY, POLYMER SENSOR SHROUD)

PHC10105	Rugged pH Probe, Double Junction, Gel-Filled, ATC	65749	\$
MTC10105	Rugged ORP Probe, Double Junction, Gel-Filled, ATC	65753	

* HQ pH/ORP/mV meters are compatible with any IntelliCAL pH or ORP probe. See page 834 for full probe descriptions, photos and more options.