

Benchtop Water Quality Meters

Laboratory meters display selected parameter and temperature simultaneously. Automatic temperature compensation maintains reading accuracy.

PH METERS

Automatic buffer recognition for U.S. and NIST pH buffers.

Oakton—Measure pH, temperature, and millivolts (mV). Memory for 100 data points. Accepts any pH or ORP electrodes with a BNC connector. Kit 6CAU6 includes meter, a single-junction all-in-1 temperature/pH electrode, and AC adapter. Kit 6CAU7 includes meter, double-junction pH electrode, temperature probe, electrode holder, and AC adapter. For more Oakton electrodes, see page 630.



Thermo—Orion Star meters have AUTO-READ that locks in readings. Each includes a Triode 3-in-1 pH/ATC probe.

PH/CONDUCTIVITY METER

6CAV4—Measures pH, mV, EC, and total dissolved solids (TDS). Autoranging automatically sets the best resolution for conductivity and TDS measurements. Automatic buffer recognition for both U.S. and NIST pH buffers. Includes pH electrode, conductivity/temperature probe, and probe stand.

CONDUCTIVITY METER

Read across 5 measurement ranges. Water-resistant membrane keypad.



pH Range	pH Accuracy	Calibration	Brand	Mr. Model	Item No.
pH Meters					
0-14	—	—	Thermo	2115101	8U378
—	—	—	Oakton	WD-35419-12	6CAU8
-2 to 14	0.01	3 Point	Thermo	STARA1110	12L828
—	—	—	Oakton	WD-35419-23	6CAV2
0.00 to 14.00	±0.01	5 pt	Oakton	WD-35419-00	6CAU5
0.00 to 14.00	±0.01	5 pt	Oakton	WD-35419-03	6CAU6
0.00 to 14.00	±0.01	5 pt	Oakton	WD-35419-10	6CAU7
-2 to 16	±0.01	3 Point	Thermo	STARA1115	12L829
-2 to 20	0.01	5 Point	Thermo	STARA2110	12L840
-2 to 20	±0.01	5 Point	Thermo	STARA2115	12L841

pH Range	pH Accuracy	Electric Conductivity Range	Electric Conductivity Accuracy	Calibration	Brand	Mr. Model	Item No.
pH/Conductivity Meter							
-1.99 to 16.00	±0.002	0.00 uS/cm to 200.0 mS/cm	±1% full scale	5 point	Oakton	WD-35413-00	6CAV4
Conductivity Meter							
—	—	0.00 uS/cm to 200.0 mS/c	±1% full scale	5 pt	Oakton	WD-35411-00	6CAV3

pH Process Electrodes

- Flat tip
- 0 to 14 pH measurement range

600 Series—High-quality electrodes provide compatibility for harsh applications. Configurable for general purpose applications, low ionic conditions, or samples containing HF (hydrofluoric acid).

Note: Additional cable lengths are available; see Grainger.com



8000 Series—Modular, flat surface, self-cleaning S8000 platform features high-temperature electrolyte and enhanced ERP (extended reference path) technology that protects the reference in the presence of heavy metals, proteins, silver, and sulfides. Double junction provides extra protection in dirty applications. Ryton PPS body.



Application	Connector	Mr. Model	Item No.
600 Series			
Replacement Electrode, Self-Cleaning	BNR	S660CD	16Z014
Replacement Electrode, Insertion	BNR	S656CD	16Z019
Replacement Electrode	BNR	S651CD	16Z016
8000 Series			
pH Electrode	TNR	S8000CD	16Z025

Hydrometers

DURAC

Made of lead-free ballast and glass. 12M017 features a built-in, mercury-free thermometer for measuring API. 8AMV6 is a dual-scale hydrometer used in the chemistry, pharmacology, food and beverage, starch, and similar industries. This serialized, plain form hydrometer is packaged with a multilanguage Statement of Accuracy indicating accuracy traceable to NIST. Use 8AVZ6 to determine specific gravity in battery acid. 46Z362, 13K183, and 46Z366 measure sodium chloride saturation of salt brines in food, fishing, and transportation industries.

Note: Enclosed thermometers should be used as a general reference only. For temperature-critical applications, a calibrated standard thermometer is recommended.



THERMCO

Individually serialized instruments are tested and calibrated by the manufacturer, and each is supplied with a statement of accuracy. Use a separate thermometer for taking temperature measurements, and correct for any temperature variations. Shatterproof polycarbonate construction.

VEE GEE

20KL66 provides battery acid testing. Includes thermometer, glass syphon tube, rubber bulb, nozzle, and clamp. 20KL54 gives the ratio of the mass of a solid or liquid to the mass of an equal volume of distilled water.

Application	Used For	Application	Used For
API	Petroleum products	Alcohol, Proof, or Ethyl Alcohol Proof	% ethyl alcohol
Baume	Syrups and other liquids denser than water	—	—
Salt	Aqueous Solution	Sodium Chloride	—
Specific Gravity	Density compared to water	Isopropyl Alcohol	% by volume



Durac	Application	Scale	L	Accuracy	Scale Divisions	Range	Temp. Range	Std.	Mr. Model	Item No.
API	API	API	381 mm	+/-0.1°	0.1°	39/51°	0° to 150°F	NIST	B61823-0400	12M017
Baume & Specific Gravity for Liquids Heavier than Water	Specific Gravity and Baume	Specific Gravity and Baume	165 mm	+/-0.005 sp. gr; +/-0.5° Baume	0.005 sp. gr; 0.5° Baume	1.000/1.225 sp. gr and 0/25° baume	60° to 60°F	NIST	B61806-0800	8AMV6
Specific Gravity	Specific Gravity	Specific Gravity	165 mm	+/-0.005	0.005	1.150/1.300	77° to 77°F	NIST	B61809-0200	8AVZ6
Specific Gravity	Specific Gravity	Specific Gravity	381 mm	+/-0.002	0.002	1.000/1.220	0° to 150°F	NIST	B61821-0400	12L997
Salt Brine	Salt Brine by Saturation	Salt Brine by Saturation	300 mm	+/-1%	0.01	10/100%	Salt Brine	NIST	B61800-0600	46Z362
Salt Brine	% by Weight Sodium Chloride	% by Weight Sodium Chloride	300 mm	+/-0.5%	0.50%	0/26.5% by Weight	60° to 60°F	NIST	B61809-0100	13K183
Salt Brine	Salt Brine by Weight	Salt Brine by Weight	300 mm	+/-0.2%	0.0020	4/26.4%	Salt Brine	NIST	B61800-1000	46Z366
Thermco										
Baume	Baume	Baume	250 mm	—	0.2	0/25	—	NIST	ACC8525PC	32FY93
Baume	Specific Gravity	Specific Gravity	300 mm	—	0.002	1.000/1.220	—	NIST	ACC8540PC	32FY73
Specific Gravity	Specific Gravity	Specific Gravity	300 mm	—	0.002	0.695/2.000	—	NIST	GW3244SET	32GC81
Specific Gravity	Specific Gravity	Specific Gravity	300 mm	—	0.002	1.000/1.220	—	NIST	GW2540	32GC39
Salt	Salt	Salt	300 mm	—	1.0	0/100%	—	NIST	GW2511	32GD46
Salt	Salt	Salt	300 mm	—	1.0	0/100%	—	NIST	ACC8511PC	32FY76
API ASTM	API ASTM	API ASTM	380 mm	—	0.1	39/51	0° to 150°F	NIST	GW055HLS	32FZ51
VEE GEE										
Syphon	—	—	180 mm	—	0.002	1.150/1.300	—	—	6605-5	20KL66
Specific Gravity	Specific Gravity	Specific Gravity	305 mm	—	0.002	1.000/1.220	—	—	6603-1	20KL54