



Environmental Express® Oakton® 100 Series Portable Meters

- Effortless operation with rapid buffer ID, range setting, and measurement
- Deployable to any environment with a backlit display and rugged, waterproof design
- Advanced digital processing technology improves meter stability for dependable accuracy
- Self-managing auto-functions ensure 24/7 readiness



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Environmental Express® Oakton® 100 Series Portable Meters

Electrochemistry testing meters uniquely designed for field or mobile applications.

✓ Easy to Use

Mobile physical sample testing is made effortless using Environmental Express Oakton portable meters. The 100 series portable meters use advanced digital processing technology to intelligently improve measurement response time. Rapid meter response as well as an easy-to-navigate user interface allow any level user to perform testing confidently whether it's pH, DO, or ion concentrations.

✓ Portable and Durable

Waterproof, dust-resistant IP57 rating and rubber boot design ensure durability in rough environments. Additional features including a built-in stand and optional carrying case allow the unit to be adapted to any operating environment.

✓ Accurate

Intuitive, user-friendly indicators (☺) for reading stability as well as automatic Hold, buffer recognition, and calibration modes eliminate any guesswork.

✓ Self-Managed and Reliable

A built-in microprocessor chip enables advanced functions, such as auto-calibration, auto-temperature compensation, parameter settings, self-diagnosis, low-battery status, and auto power-off, ensuring the unit is ready to be deployed when you need it.

A broad selection of meters, probes, and testing capabilities allows users of the portable Oakton 100 series of meters to select the solution (equipment) that aligns with any lab or field-testing needs and easily manage testing requirements anywhere while saving technicians' time for what's important.



PC 100 meter kit



Oakton® pH 100 Portable Meter

- Measures pH, mv, ORP, and temperature (°F/°C)

Specifications

pH range: 0 to 14 pH
pH resolution: 0.01/0.1 pH
pH accuracy: ±0.01 pH
Temperature compensation: 0 to 100°C (auto or manual)
pH calibration: 1 to 3 points automatic
pH buffer solutions: USA, NIST
mV range: ±1000 mV
mV resolution: 0.1 mV from -200 to 200 mV; 1 mV remaining
mV accuracy: ±0.2% full-scale

ORP range: ±1000 mV
ORP resolution: 1 mV
ORP accuracy: ±0.2% full-scale
ORP calibration range: ±50 mV of reading
Temperature range: 32 to 212°F (0 to 100°C)
Temperature resolution: 0.1°F/°C
Temperature accuracy: ±0.9°F (0.5°C) ±1 digit
Power: three AA batteries (1.5 V) included
Battery life: 400 hours without backlight



Model	Probe(s) included	Accessories included	Item number
pH 100	Temperature (ATC)	None	35613-28
	pH, temperature (ATC)	None	35613-25
	pH, temperature (ATC)	Carrying case and solutions	35613-27

Accessories

- 59001-65** Replacement pH electrode; single-junction, gel-filled. Epoxy body, BNC connector
35811-71 "All-in-one" combination pH probe with built-in ATC; single-junction sealed, epoxy body, BNC connector
35811-72 "All-in-one" combination pH probe with built-in ATC; double-junction sealed, epoxy body, BNC connector
35613-13 Replacement ATC probe, stainless steel
09376-01 Replacement batteries, AA. Pack of 4
17106-20 NIST-traceable calibration with data for pH meter



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Oakton® EC 100 Portable Meter

- Measures conductivity, TDS, salinity, and temperature (°F/°C)

Specifications

Conductivity ranges: 0.00 to 19.99 $\mu\text{S}/\text{cm}$, 20.0 to 199.9 $\mu\text{S}/\text{cm}$, 200 to 1999 $\mu\text{S}/\text{cm}$; 2.00 to 19.99 mS/cm , 20.0 to 199.9 mS/cm

Conductivity resolution: 0.01, 0.1, 1 $\mu\text{S}/\text{cm}$; 0.01, 0.1 mS/cm

Conductivity accuracy: $\pm 1.0\%$ full-scale

Temperature compensation: 0 to 60°C (automatic or manual)

Conductivity electrode constant: 0.1, 1, 10 cm^{-1}

Conductivity temperature coefficient: 0 to 9.99%/°C

Conductivity reference temperature: 15 to 30°C

Conductivity calibration: 1 to 4 points automatic

Conductivity calibration solutions: 84 $\mu\text{S}/\text{cm}$, 1413 $\mu\text{S}/\text{cm}$; 12.88 mS/cm , 111.8 mS/cm

TDS range: 0 to 100 $\mu\text{g}/\text{L}$

TDS accuracy: $\pm 1.0\%$ full-scale

Salinity range: 0 to 100 ppt

Salinity accuracy: $\pm 1.0\%$ full-scale

Temperature range: 32 to 212°F (0 to 100°C)

Temperature resolution: 0.1°F/°C

Temperature accuracy: $\pm 0.9^\circ\text{F}$ (0.5°C) ± 1 digit

Power: three AA batteries (1.5 V) included

Battery life: 400 hours without backlight



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Model	Probe(s) included	Accessories included	Item number
EC 100	Conductivity (K = 1.0), temperature (ATC)	None	35604-10
		Carrying case and solutions	35604-15

Accessories

35606-53 Conductivity probe, K = 0.1

35606-55 Replacement conductivity probe, K = 1.0

35606-57 Conductivity probe, K = 10

09376-01 Replacement batteries, AA. Pack of 4

17090-30 NIST-traceable calibration with data for conductivity meter





Oakton® PC 100 Portable Meter

- Measures pH, mv, ORP, conductivity, TDS, salinity, and temperature (°F/°C)
- Handy electrode clip holds all three probes at once

Specifications

pH range: 0 to 14 pH
pH resolution: 0.01/0.1 pH
pH accuracy: ±0.01 pH
pH temperature compensation: 0 to 100°C (auto or manual)
pH calibration: 1 to 3 points automatic
pH buffer solutions: USA, NIST
mV range: ±1000 mV
mV resolution: 0.1 mV from -200 to 200 mV; 1 mV remaining
mV accuracy: ±0.2% full-scale
ORP range: ±1000 mV
ORP resolution: 1 mV
ORP accuracy: ±0.2% full-scale
ORP calibration range: ±50 mV of reading
Conductivity ranges: 0.00 to 19.99 µS/cm, 20.0 to 199.9 µS/cm, 200 to 1999 µS/cm; 2.00 to 19.99 mS/cm, 20.0 to 199.9 mS/cm
Conductivity resolution: 0.01, 0.1, 1 µS/cm; 0.01, 0.1 mS/cm
Conductivity accuracy: ±1.0% full-scale

Conductivity temperature compensation range: 0 to 60°C (automatic or manual)
Conductivity electrode constant: 0.1, 1, 10 cm⁻¹
Conductivity temperature coefficient: 0 to 9.99%/°C
Conductivity reference temperature: 15 to 30°C
Conductivity calibration: 1 to 4 points automatic
Conductivity calibration solutions: 84 µS/cm, 1413 µS/cm; 12.88 mS/cm, 111.8 mS/cm
TDS range: 0 to 100 µg/L
TDS accuracy: ±1.0% full-scale
Salinity range: 0 to 100 ppt
Salinity accuracy: ±1.0% full-scale
Temperature range: 32 to 212°F (0 to 100°C)
Temperature resolution: 0.1°F/°C
Temperature accuracy: ±0.9°F (0.5°C) ±1 digit
Power: three AA batteries (1.5 V) included
Battery life: 400 hours without backlight



Model	Probe(s) included	Accessories included	Item number
PC 100	pH, conductivity (K = 1.0), temperature (ATC)	Electrode clip	35613-45
		Electrode clip, carrying case, and solutions	35613-46

Accessories

35606-53 Conductivity probe, K = 0.1

35606-57 Conductivity probe, K = 10

17090-30 NIST-traceable calibration with data for conductivity meter

17106-20 NIST-traceable calibration with data for pH meter

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Oakton® ION 100 Portable Meter

- Measures pH, mV, ion concentration of 16 commonly measured ions, and temperature (°F/°C)
- mV mode allows you to check electrode calibration and performance
- ±1000 mV range is compatible with virtually all ISE electrodes

Specifications

pH range: 0 to 14 pH

pH resolution: 0.01/0.1 pH

pH accuracy: ±0.01 pH

Temperature compensation: 0 to 100°C (auto or manual)

pH calibration: 1 to 3 points automatic

pH buffer solutions: USA, NIST

mV range: ±1000 mV

mV resolution: 0.1 mV from -200 to 200 mV;
1 mV remaining

mV accuracy: ±0.2% full-scale

Ion ranges: 0.00 to 10.00 pX; 0 to 1999 ion concentration

Units of measure: switchable pX, mol/L, or ppm (mg/L)

Ion resolution: 3 to 4 significant digits

Ion accuracy: ±1.0% full-scale

Temperature range: 32 to 212°F (0 to 100°C)

Temperature resolution: 0.1°F/°C

Temperature accuracy: ±0.9°F (0.5°C) ±1 digit

Power: three AA batteries (1.5 V) included

Battery life: 400 hours without backlight



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Model	Probe(s) included	Accessories included	Item number
ION 100	Temperature (ATC)	None	35613-65
		Carrying case	35613-68



Accessories

27504-14 Fluoride electrode, double-junction, refillable. Epoxy body, BNC connector

27502-00 Ammonia electrode, double-junction, refillable. Epoxy body, BNC connector

27504-22 Nitrate electrode, double-junction, refillable. Epoxy body, BNC connector

09376-01 Replacement batteries, AA. Pack of 4

17106-20 NIST-traceable calibration with data for pH meter

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Oakton® DO 100 Portable Meter

- Measures dissolved oxygen (DO) and temperature (°F/°C)

Specifications

DO range: 0 to 20.00 mg/L (ppm); 0 to 200%

DO resolution: 0.01/0.1 mg/L (ppm); 0.1/1%

DO accuracy: ±0.30 mg/L

DO response time: ≤ 30s (77°F/25°C, 90% response)

Temperature compensation: 0 to 45°C (automatic)

Salinity compensation range: 0 to 45 ppt (automatic)

Air pressure compensation: 60 to 200 kPa (manual)

Temperature range: 32 to 212°F (0 to 100°C)

Temperature resolution: 0.1°F/°C

Temperature accuracy: ±0.9°F (0.5°C) ±1 digit

Power: three AA batteries (1.5 V) included

Battery life: 400 hours without backlight



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Model	Probe(s) included	Accessories included	Item number
DO 100	Polarographic DO electrode with built-in temperature sensor, electrolyte solution, membrane caps, and cathode polishing paper	None	35643-00
		Carrying case	35643-05

Accessories

35643-01 Replacement polarographic DO electrode

35643-02 Replacement electrode inner solution (electrolyte), 30 mL

35643-03 Replacement membrane caps. Pack of 3



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