

OAKTON[®] Ion/mV and Ion/mV/pH/°C Acorn Ion 5 & Ion 6 Meters

Direct readout of ion concentration at breakthrough pricing!

Simple to use

preprogrammed calibration points allow even beginners to take readings in minutes!

Works with almost all Ion Selective Electrodes

±500 mV ranges covers the vast majority of ISEs

Compact size

fits right in your pocket—take your OAKTON Ion meter anywhere!

mV measurement mode

allows you to check performance and calibration of your ion selective electrode

All push button operation

for fast, easy use—no trim pots to adjust!

Hold function

freezes measurements for convenient reading and recording

Auto-off function

turns off meter after 17 minutes of non-use to save batteries

Optional protective boot

helps shield your meter from drops and dings and features a built-in stand

ISE labware kit available

contains volumetric flasks and pipettes for making serial dilutions

The ION 6 meter also features:

pH and temperature (°C) readout

with high ±0.01 pH/±0.5°C accuracy

Automatic Temperature Compensation (ATC)

for the highest accuracy in changing temperature conditions

Use with most pH electrodes with BNC connectors

3 year warranty
meter only
ISO 9001
vendor
CERTIFIED



Above: Acorn ION 5 meter shown actual size.

Top right: Acorn ION 6 meter comes with ATC temperature probe; customize with the electrode best for your application.

Middle right: ION 5 shown with optional rubber boot.

Lower right: ISE labware kit contains the glassware you need for making serial dilutions.



A pricing breakthrough in direct ion concentration measurements! The compact and rugged Acorn™ Ion meters are the most economical ion meters with direct concentration readings available. Choose between the Ion 5 or Ion 6 meters—the Ion 6 meter also takes readings in pH and temperature (°C).

The Ion 5 and Ion 6 meters offer easy access connections for probes. The splash-resistant membrane keypad helps protect meter components from occasional spills. The large LCD gives you a clear reading at a glance, and warns you of low-battery conditions or calibration errors.

Use our ISE labware kit for making serial dilutions; this kit contains all the volumetric flasks and pipettes you'll need. Order the optional rubber boot to protect your meter from drops and dings. See the back of this sheet for ordering information, complete specifications and accessories.

OAKTON™ ...setting the standard, again and again™

Large Custom LCD for clear and easy readings; switch between measured parameters with the touch of a button.



Easy access connections for BNC electrode and temperature sensor (Ion 6 only).



Splash-resistant membrane keypad helps protect components.



Optional rubber boot offers sturdy protection for meter; acts as meter stand for benchtop use.



ISE labware kit contains volumetric flasks and pipettes for serial dilutions.



ACORN™ Ion 5 and Ion 6 meters

• 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.

Water Quality Testing: Use the Acorn Ion meters for quick fluoride level checks.

Environmental/Agricultural Applications: Use for checking nutrient levels in aquariums, aquaculture and hydroponics.

Educational Applications: These economical, sturdy meters are ideal for quick, accurate checks in labs and schools.

Laboratory / Industrial Applications: Use for water hardness testing or other ions in feed or wastewater, sewage treatment, soil testing, fertilizer testing, plant tissue testing, food processing (check sodium, potassium levels), geological testing, and metal plating. Also use in the paper/pulp or pharmaceutical industries.

• Specifications •

Model	Ion 5 and Ion 6 meters		Ion 6 meter only	
	Ion	mV	pH	Temperature
Range	0.01 to 1999 ppm	-500 to +500 mV	0.00 to 14.00 pH	0.0 to 100.0 °C
Resolution	0.01 ppm (0.01 to 0.99 ppm); 0.1 ppm (0.1 to 199.9 ppm); 1 ppm (200 to 1999 ppm)	0.1 mV within ±199.9 mV 1 mV beyond ±200 mV	0.01 pH	0.1 °C
Accuracy	±1% full scale	±0.2 mV within ±199.9 mV ±2 mV beyond ±200 mV	±0.01 pH	±0.5 °C
Calibration	2 or 3 points, 0.1; 1; 10; 100 ppm (minimum 2 points)	not available	Up to 3 buffer values (pH 4.01; 7.00; 10.0); auto-buffer recognition	Offset 0.1°C increments

Minimum slope during ion calibration: 40 mV/decade for monovalent ions; 20 mV/decade for divalent ions

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

pH slope range (Ion 6 only): 80% to 120%

Temperature Compensation (Ion 6 only): Manual or Automatic
Temperature Compensation (ATC) from 0.0 to 100.0°C

Power: 4 x 1.5 V AAA batteries >200 hours continuous use (included)

Dimensions:

Meter: 5.5" x 2.7" x 1.3" (14 x 7 x 3.5 cm)

Boxed: 9.25" x 6.5" x 3.0" (23.5 x 16.5 x 7.5 cm)

Weight: Meter only: 0.9 lb (408 g); Boxed: 1 lb (450 g)

• Ordering Information •

ACORN™ Ion Meters

All meters include operating instructions and batteries.

Shipping weight: 1.0 lb (450 g)

WD-35613-21 Ion 5 meter, meter only;
electrode not included

WD-35613-31 Ion 6 meter, meter and temperature probe;
electrode not included

WD-35613-30 Ion 6 meter, includes pH electrode and
temperature probe

WD-35613-33 Ion 6 meter, includes "All-in-One" combination
pH electrode/temperature sensor

ISE Electrodes

These electrodes include 15 ml of reference electrolyte and a filling pipette. Each ISE is epoxy body, double junction (except WD-35802-00 is single junction) and have BNC connector. Shpg wt: 0.5 lb (230 g).

WD-35802-00 Ammonia (NH₃) electrode

WD-35812-02 Ammonium (NH₄⁺) electrode

WD-35812-08 Calcium (Ca²⁺) electrode

WD-35812-12 Chloride (Cl⁻) electrode

WD-35812-14 Copper (Cu²⁺) electrode

WD-35812-18 Fluoride (F⁻) electrode

WD-35812-24 Lead (Pb²⁺) electrode

WD-35812-30 Nitrate (NO₃⁻) electrode

WD-35812-42 Sodium (Na⁺) electrode

WD-35812-48 Water Hardness electrode

ISE Solution Kits

These kits contain the solutions and accessories necessary for calibration and sample preparation. Shpg wt 1 lb (460 g).

WD-35802-50 Ammonia (NH₃) solution kit

WD-35802-53 Ammonium (NH₄⁺) solution kit

WD-35802-59 Calcium (Ca²⁺) solution kit

WD-35802-63 Chloride (Cl⁻) solution kit

WD-35802-65 Copper (Cu²⁺) solution kit

WD-35802-69 Fluoride (F⁻) solution kit

WD-35802-75 Lead (Pb²⁺) solution kit

WD-35802-79 Nitrate (NO₃⁻) solution kit

WD-35802-93 Sodium (Na⁺) solution kit

WD-35802-99 Water Hardness solution kit

pH Electrodes

WD-35801-00 pH electrode, epoxy body, single junction,
5.2"L x 0.47" OD (12 mm) with 3-ft cable. Shpg wt 0.5 lb

WD-35805-01 pH electrode, epoxy body, double junction,
5.2"L x 0.47" OD (12 mm) with 3-ft cable. Shpg wt 0.5 lb

WD-35613-05 Replacement temperature probe,
316 SS, 3-ft cable, polypropylene cap. Shpg wt 0.15 lb

Calibration Solutions and Accessories

ISE Labware Kit, includes one 10 ml graduated pipette and bulb,
one 10 ml graduated cylinder, and three 250 ml beakers.
Ideal for standard and sample preparation.

WD-35613-60 ISE Labware kit

WD-35606-80 Protective rubber boot
for Acorn Series meters. Shpg wt 0.5 lb (0.23 kg)

"SINGLES" pH Calibration Pouches, box of 20. Each airtight
pouch contains 20 ml of fresh, premixed pH buffer or rinse water.
Accuracy ±0.01 pH at 25°C. Shpg wt 1 lb (0.45 kg)

WD-35653-01 pH 4.01 calibration pouches

WD-35653-02 pH 7.00 calibration pouches

WD-35653-03 pH 10.00 calibration pouches

WD-35653-00 Rinse water pouches

WD-35653-04 Assortment pack; five each of pH 4.01,
7.00, 10.00, and rinse water pouches

pH Calibration Buffer Bottles, one pint premixed calibration
solution. Accuracy ±0.01 pH at 25°C. Shpg wt 1.1 lbs (0.5 kg)

WD-00654-00 pH 4.01 buffer

WD-00654-04 pH 7.00 buffer

WD-00654-08 pH 10.00 buffer

• ORDER FROM •

Contact:
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