

# 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.

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 (NH<sub>3</sub>) electrode
- WD-35812-02 Ammonium (NH<sub>4</sub><sup>+</sup>) electrode
- WD-35812-08 Calcium (Ca<sup>2+</sup>) electrode
- WD-35812-12 Chloride (Cl<sup>-</sup>) electrode
- WD-35812-14 Copper (Cu<sup>2+</sup>) electrode
- WD-35812-18 Fluoride (F<sup>-</sup>) electrode
- WD-35812-24 Lead (Pb<sup>2+</sup>) electrode
- WD-35812-30 Nitrate (NO<sub>3</sub><sup>-</sup>) electrode
- WD-35812-42 Sodium (Na<sup>+</sup>) 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 (NH<sub>3</sub>) solution kit
- WD-35802-53 Ammonium (NH<sub>4</sub><sup>+</sup>) solution kit
- WD-35802-59 Calcium (Ca<sup>2+</sup>) solution kit
- WD-35802-63 Chloride (Cl<sup>-</sup>) solution kit
- WD-35802-65 Copper (Cu<sup>2+</sup>) solution kit
- WD-35802-69 Fluoride (F<sup>-</sup>) solution kit
- WD-35802-75 Lead (Pb<sup>2+</sup>) solution kit

**WD-35802-79 Nitrate (NO<sub>3</sub><sup>-</sup>) solution kit**

**WD-35802-93 Sodium (Na<sup>+</sup>) 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 •