

Acorn[®] Ion 5 & 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 many Ion-Selective Electrodes

±500 mV ranges covers the vast majority of ISEs

Compact size

take your Acorn 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 and Auto-off functions

Protective boot

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

Ion 6 meter also features:

pH and temperature (°C) readout

with high ±0.01 pH/±0.5°C accuracy

Automatic temperature compensation (ATC) for pH

for the highest accuracy in changing temperature conditions

Use with most pH electrodes with BNC connector

Applications

ISE: Use with any ISE electrode with BNC connection to take direct measurements of ion concentration. Titration methods allow measurement of many other types of ions.

Water Quality Testing: Ideal for quick fluoride level checks.

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

Educational: Ideal for quick, accurate tests in labs and schools.

Laboratory/Industrial: 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 and potassium levels), geological testing, and metal plating. Also use in the paper/pulp and pharmaceutical industries.



Left: Acorn Ion 5 meter

Top right: Protective rubber boot features a built-in stand.

Lower right: ISE labware kit 35613-60 contains the glassware you need for making serial dilutions.



See pages 32-33 for ion-selective electrodes



Specifications

Model	Ion 5 and Ion 6 meters		Ion 6 meter only	
	Ion	mV	pH	Temperature
Range	0.01 to 1999 units	-500 to +500 mV	0.00 to 14.00 pH	0.0 to 100.0°C
Resolution	0.01 unit (0.01 to 0.99 units), 0.1 unit (0.1 to 199.9 units), 1 unit (200 to 1999 units)	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 from 0.0 to 100.0°C

Power: four 1.5 V AAA batteries (included), >200 hours continuous use

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

Cat. no.	Description	Included
WD-35613-21	Ion 5 meter only	Meter, protective rubber boot, instructions, and batteries.
WD-35613-31	Ion 6 meter with temp probe	Meter, temperature probe, pH electrode, pH sample bottles, calibration pouches, rinse bottle, carrying case, protective rubber boot, instructions, and batteries.
WD-35613-74	Ion 6 meter kit	Meter, temperature probe, pH electrode, pH sample bottles, calibration pouches, rinse bottle, carrying case, protective rubber boot, instructions, and batteries.
WD-35613-60	ISE labware kit	One 10-mL graduated pipette and bulb, one 10-mL graduated cylinder, and three 250-mL beakers. Ideal for standard and sample preparation.