

# Ion 700 Meter

**Measure pH, mV, and direct ion concentration without sacrificing your budget, quality or performance!**

**Small footprint saves bench space** – Gives you more working room in the lab

**Direct readout of ion concentration in ppm** – Resolution to 0.01 ppm

**Oversized dual display for easier viewing** – LCD shows measured parameter and temperature in pH/mV modes; ion concentration and mV (electrode output) in ion mode

**Features 0.1 mV resolution for ORP measurements**

**Simultaneous display of ppm and mV electrode output in the ion mode** – Verify electrode operation while taking measurements

**Selectable buffer sets and five-point pH calibration with auto buffer recognition** – Choose from USA or NIST buffer sets

**Works with many ion-selective electrodes** – The  $\pm 1999$  mV range covers most ISEs

**Built-in electrode stand** – Holds electrode firmly in place

**Selectable manual or automatic temperature compensation** – For highest accuracy in any situation

**Built-in memory function** – Stores up to 100 ion, mV, or pH readings

**Hold function, "Ready" indicator, diagnostic messages**

**Slide-out instruction card for quick reference**



Drinking Water



Food

Ion-selective and pH electrodes are available on pages 23–29.



The Ion 700 meter includes a removable electrode holder and handy slide-out instruction card.

35419-22

ISO9001:2000  
CERTIFIED SUPPLIER



3 year  
warranty  
meter only

## Specifications

Mode	pH	mV	Ion	Temperature
Range	-2.00 to 16.00 pH	$\pm 2000$ mV	0.01 to 2000 ppm	0.0 to 100.0°C (32 to 212°F)
Resolution	0.01 pH	0.1 mV from $\pm 199.9$ mV, 1 mV beyond $\pm 199.9$ mV	0.01 ppm from 0.01 to 0.99 ppm, 0.1 ppm from 1.0 to 199.9 ppm, 1 ppm from 200 to 1999 ppm	0.1°C or 0.1°F
Accuracy	$\pm 0.01$ pH	$\pm 0.2$ mV from $\pm 199.9$ mV, $\pm 2$ mV beyond $\pm 199.9$ mV	$\pm 0.5\%$ of reading (monovalent) $\pm 1.0\%$ of reading (divalent)	$\pm 0.3^\circ\text{C}$ ( $\pm 0.5^\circ\text{F}$ )
Calibration	Up to 5 points (USA: 1.68, 4.01; 7.00; 10.01; 12.45 or NIST: 1.68, 4.01, 6.86; 9.18, 12.45); auto-buffer recognition	Offset up to $\pm 150$ mV	From 2 to 5 points, 0.1; 1; 10; 100 ppm, 1 or 1000	Offset 0.1°C increments

**Temperature compensation:** selectable manual or automatic from 32 to 212°F (0 to 100°C)

**Memory:** up to 100 sets

**Output:** None

**Display:** 3¼" x 2⅞" (7.3 x 6.2 cm) dual LCD with temperature and mode annunciators

**Error messages:** diagnose operator error, electrode error, and meter error. Pull-out instruction card decodes message

**Operating temperature:** 5 to 45°C (41 to 113°F), noncondensing humidity

**Power:** 100/240 VAC, 50/60 Hz using AC adapters (included). AC adapters are UL and CSA listed.

### Dimensions

**Meter:** 6⅞" x 6⅞" x 2¼" (15.5 x 17.5 x 6.9 cm)

**Boxed:** 9" x 12¼" x 5" (23 x 35 x 12.5 cm)

### Weight

**Meter only:** 1.4 lb (0.6 kg); **Boxed:** 4 lb (1.8 kg)

## Ordering Information

Catalog number	Description	Included
WD-35419-22	Ion 700 meter with electrode holder	Meter, removable electrode holder, and AC adapter
WD-35419-20	Ion 700 meter with probes	Meter, double-junction pH electrode 35805-04, temperature probe 35613-13, electrode holder, and AC adapter
WD-35419-23	Ion 700 meter with pH/ATC probe	Meter, "All-in-One" single-junction pH electrode 35811-71, electrode holder, and AC adapter