

## PC 650 pH/Conductivity Meter

**Two most common electrochemistry measurements in one convenient meter!**

**Durable waterproof and dustproof design with IP67 rating** – Even with no probes attached

**Push-button pH calibration at up to six points** – Up to 15 buffer options with auto-buffer recognition of USA, NIST, DIN, and PWB standards

**Large backlit graphic display** – Multiline display with electrode status indicator, calibration data, and more

**User-settable "calibration due" alarm** – Out-of-date or unperformed calibrations are now things of the past!

**Built-in real-time clock** – Time-and-date stamping meets Good Laboratory Practice (GLP) standards

**Store up to 500 data sets** – Infrared IrDA wireless technology makes PC downloading convenient and easy

**Set point alarms** – Audible warning when readings are outside set points limit

**Research-grade accuracy** – Resolution to 0.001 pH and accuracy to  $\pm 0.002$  pH

**Electrode status indicator** – Calibration data provides electrode diagnostic tool

**Password protection** – Security for calibration and setup menus

**Rugged rubber boot** – Protects meter from impact (optional; included with kit)



ISO9001:2008  
CERTIFIED SUPPLIER



**3 year**  
warranty  
meter only

### Specifications

Model	PC 650 meter	
Range	pH	-2.000 to 20.000 pH
	Ion	0.001 to 19,900 ppm, molar, or mg/L
	mV	$\pm 2000$ mV
	Conductivity	0 to 500.0 mS
	TDS	0 to 500 ppt
	Salinity	0 to 80 ppt
	Resistivity	0 to 20.00 M $\Omega$
	Temperature	-10.0 to 110.0°C (14.0 to 230.0°F), selectable
Resolution	pH	0.1/0.01/0.001 pH
	Ion	2 or 3 digits
	mV	0.1 mV
	Conductivity	0.05% full-scale
	Temperature	0.1°C (0.1°F)
Accuracy	pH	$\pm 0.002$ pH
	Ion	$\pm 0.5\%$ full-scale (monovalent); 1% full-scale (divalent)
	mV	$\pm 0.2$ mV
	Conductivity	1% full-scale
	Temperature	$\pm 0.5^\circ\text{C}$ ( $\pm 0.9^\circ\text{F}$ )
Calibration	pH	Up to 6 buffer values (select from 4 sets): USA: 1.68, 4.01, 7.01, 10.01, 12.45; NIST: 1.68, 4.01, 6.86, 9.18, 12.45; DIN: 1.09, 2.06, 4.65, 6.79, 9.23, 12.75; or custom buffers
	Ion	Up to 6 points
	Conductivity	Manual up to 5 points (1 per range); automatic up to 4 points (84.0 $\mu\text{S}/\text{cm}$ , 1413 $\mu\text{S}/\text{cm}$ ; 12.88 mS/cm, 111.8 mS/cm)
	Temperature	Offset 0.1°C (0.1°F) increments

**Memory:** up to 500 sets with GLP date and time

**Output:** infrared, IrDA

**Real-time clock:** time-and-date stamp on calibration and stored data

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

**Ambient operating temperature:** 0 to 50°C (32 to 122°F)

**Power:** four 1.5 V AA batteries (included) or optional universal AC adapter, up to 200 hours continuous use

### Dimensions

**Meter:** 7 $\frac{1}{2}$ "L x 3 $\frac{3}{4}$ "W x 2 $\frac{1}{4}$ "H (19 x 9.5 x 5.7 cm)

**Boxed:** 9 $\frac{1}{2}$ "L x 9 $\frac{1}{4}$ "W x 2 $\frac{3}{4}$ "H (23 x 23 x 7 cm)

### Weight

**Meter:** 1 lb (0.5 kg); **Boxed:** 2 lb (0.9 kg)

### Ordering Information

Catalog number	Precalibrated catalog number	Description	Included
WD-35431-02	WD-35431-03	PC 650 meter only	Meter and batteries
WD-35431-00	WD-35431-01	PC 650 meter	Meter, pH electrode 35816-77, conductivity cell 35408-57, and batteries
WD-35431-70	WD-35431-71	PC 650 meter kit	Meter, pH electrode 35816-77, conductivity cell 35408-57, calibration standards (60 mL each of pH 4.01, pH 7.00, 1413 $\mu\text{S}/\text{cm}$ , 12.88 mS solution), two electrode holders, rubber boot, hard carrying case, and batteries

**WD-35816-77 Replacement pH electrode:** double junction, epoxy body, 10-ft (3-m) cable with BNC connector

**WD-35418-05 ATC probe.** Use for temperature compensation with any pH electrode without built-in ATC

**WD-35408-57 Replacement conductivity cell,** 2-electrode, K = 1

**WD-35630-52 Down-well probe** for PC 650, pH/conductivity/temperature; 10-ft (3-m) cable

**WD-35434-85 Multiprobe holder.** Holds one each pH, conductivity, DO, and temperature probes

**WD-35418-83 Optional adapter,** 110/220 VAC



**Optional rubber boot (included with kit) provides added protection.**

See pages 23–29 for more pH and ISE electrodes; page 43 for conductivity cells.