

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User-settable “calibration due” alarm – Out-of-date or unperformed calibrations are now things of the past!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 ± 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

CE
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	± 2000 mV	
	Conductivity	0 to 500.0 mS	
	TDS	0 to 500 ppt	
	Salinity	0 to 80 ppt	
	Resistivity	0 to 20.00 M Ω	
Resolution	Temperature	-10.0 to 110.0°C (14.0 to 230.0°F), selectable	
	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	± 0.002 pH
Ion		$\pm 0.5\%$ full-scale (monovalent); 1% full-scale (divalent)	
mV		± 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 $\frac{1}{8}$ "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.