

PD 650 pH/ Dissolved Oxygen Meter

Ideal for wastewater and aquaculture!

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

Push-button calibration for all parameters – 6 points each for pH and conductivity; 3 points for DO

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User-settable “calibration due” alarm – Out-of-date or unperformed calibrations are now things of the past!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

3 year
warranty
meter only

Specifications

Model	PD 650 meter
Range	pH
	–2.000 to 20.000 pH
	Ion
	0.001 to 19,900 ppm, molar, or mg/L
	mV
Resolution	DO
	0.00 to 90.00 mg/L (ppm), 0.0 to 600.0%
	Temperature
	–10.0 to 110.0°C (14.0 to 230.0°F), selectable
	pH
Accuracy	Ion
	0.1/0.01/0.001 pH
	2 or 3 digits
	mV
	0.1 mV
Calibration	DO
	0.01 mg/L (ppm), 0.1%
	Temperature
	0.1°C (0.1°F)
	pH
Accuracy	Ion
	± 0.002 pH
	mV
	$\pm 0.5\%$ full-scale (monovalent); $\pm 1\%$ full-scale (divalent)
	DO
Calibration	mV
	± 0.2 mV
	DO
	± 0.2 mg/L; $\pm 2.0\%$
	Temperature
Calibration	Temperature
	$\pm 0.5^\circ\text{C}$ (0.9°F)
	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
Calibration	DO
	Up to 6 points
	Two points; 100% and 0%
	Temperature
	Offset 0.1°C (0.1°F) increments

DO salinity correction

Range: 0.0 to 50.0 ppt;
Resolution: 0.1 ppt

DO pressure correction

Range: 500 to 1499 mm Hg, 66.6 to 199.9 kPa
Resolution: 1 mm Hg, 0.1 kPa

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 1/2" L x 3 3/4" W x 2 1/4" H (19 x 9.5 x 5.7 cm)

Boxed: 9 1/8" L x 9 1/8" W x 2 3/4" H (23 x 23 x 7 cm)

Weight

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



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

See pages 23–29
for more pH electrodes;
page 50 for DO probes.

Ordering Information

Catalog number	Precalibrated catalog number	Description	Included
WD-35432-02	WD-35432-03	PD 650 meter only	Meter and batteries
WD-35432-00	WD-35432-01	PD 650 meter	Meter, pH electrode 35816-77, DO probe 35640-50, and batteries
WD-35432-70	WD-35432-71	PD 650 meter kit	Meter, pH electrode 35816-77, DO probe 35640-50, calibration standards (60 mL each of pH 4.01, pH 7.00, electrode storage solution, and rinse water), rubber boot, multiprobe holder, batteries, and hard carrying case

WD-35816-77 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-35640-50 DO probe with 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

WD-35418-86 Protective rubber boot