Eutech PD 450









pH / mV / Dissolved Oxygen / Temperature

Affordable optical RDO technology reduces maintenance time and costs

- Maintenance free optical probe with no electrolyte eliminates hassle of replacing delicate membranes and salt build up from refilling solutions
- Switch between pH, mV, % saturation and mg/L (ppm) dissolved oxygen With the press of a button
- Durable waterproof and dustproof design with IP67 rating
- Large, backlit graphic display provides measurement with temperature
- Calibrate up to 5 points automatically with USA or NIST buffer groups (up to 6 points with DIN). New manual option allows calibration with up to 5 custom buffer standards
- Auto buffer recognition Automatically identifies the correct pH buffer for rapid calibration
- Calibration due alarm Set a visible reminder when it is time to recalibrate the meter
- Selectable °C or °F Choose units to best fit your application
- Ready indicator, manual or automatic measurement hold feature and optional automatic shutoff function
- Store up to 500 data sets Easy USB or RS232 output with optional data cables
- Built-in real-time clock stamps stored data and calibration data with time and date Meets standards for GLP (Good Laboratory Practices)







RDO Weight/Guard



RDO Sensor Cap



RDO Probe



Specification Table

	Range	-2.00 to 16.00 pH						
pН	Resolution	0.01 pH						
	Accuracy	±0.01						
	Calibration	Up to 6 points: USA, NIST, DIN or custom						
	Range	±2000 mV						
mV	Resolution	0.1 mV ±999.9 mV; 1 mV beyond						
mv	Accuracy	±0.2 mV +2 LSD or +0.5 % of reading; whichever is grea						
	Calibration	±200 mV						
	Range	0 to 200 %; 0 to 20 ppm/mg/L						
Dissolved	Resolution	0.10 %; 0.1 ppm/mg/L						
Oxygen	Accuracy	±2 %; ±0.1 ppm or mg/L up to 8;						
		±0.2 ppm or mg/L above 8						
	Calibration	Zero and saturation						
	Range	-10.0 to 110.0 °C (14.0 to 230.0 °F)						
Temperature	Resolution	0.1 °C/°F						
remperature	Accuracy	±0.5 °C; ±0.9 °F						
	Calibration	Offset in 0.1 increments, ±10 °C or ±18 °F						
Display	Custom LCD v	with backlight						
Memory	Stores up to 5	00 data sets						
Output	USB or RS232							
Real-Time Clock	Time and date stamp on calibration and stored data							
Temperature	Automatic or manual from -10 to 110 °C							
Compensation	Automatic or manual from -10 to +10 °C							
Pressure & Salinity	Manual							
Compensation	Mai lua							
Power	Two AA batteries (included), >100 hours (without backlight);							
	AC adapter (optional)							



Ordering Information

Order Code	Part No.	Description						
Meter								
ECPDWP45000	01X651641	PD 450 Meter Only: Meter, two AA batteries						
ECPDWP45004	01X651646	PD 450 Meter & Electrodes: Meter, pH/ATC electrode, RDO electrode with sensor cap, two AA batteries						
ECPDWP45004K	01X651642	PD 450 Meter Kit: Meter, pH electrode, RDO electrode with sensor cap, two AA batteries, hard carry case, USB cable, RDO stainless steel weight/ guard, RDO calibration chamber, calibration solutions						
Electrodes								
ECDA9350603B	93X218879	Replacement pH electrode, submersible, single-junction, ABS, 26 mm diameter, BNC, 3 m cable						
RDO3M	RDO3M	RDO probe, 3 m (10 ft) cable						
RDO6M	RDO6M	RDO probe, 6 m (20 ft) cable						
RDO15M	RDO15M	RDO probe, 15 m (50 ft) cable						
Accessories								
RDOCAP	RDOCAP	Replacement RDO sensor cap						
RDOWEIGHT	RDOWEIGHT	RDO weight, screw thread to attach to probe						
RDOCALCHAMBER	RDOCALCHAMBER	Calibration chamber						
60X426401	60X426401	Optional 100 / 240 VAC SMPS power adapter, 9 V, 6 W						
MINIPHONEUSB	MINIPHONEUSB	USB cable for 450 series, mini phone plug to USB						
30X427301	30X427301	RS232 cable for 450 series, mini phone plug to RS232 9-pin (F)						
ECDOZEROSOLN	01X211238	Zero oxygen solution, 0 % DO, 480 mL						



Comparison Tables

	pH 150	CON 150	pH 450	CON 450	DO 450	PD 450	PC 450					
Meter Features												
	See Page 4	See Page 5	See Page 6	See Page 7	See Page 8	See Page 9	See Page 10					
pH & mV	✓	-	✓	-	-	✓	✓					
ION	-			-	-	-	-					
Temperature	✓	✓	✓	✓	✓	✓	1					
Conductivity & TDS	-	✓	-	✓	-	-	✓					
Optical Dissolved Oxygen	-	-	-	-	✓	✓	_					
Salinity	-	-	-	✓			_					
Display	Three line custom LCD Three line custom LCD with backlight											
Temperature Compensation	Automatic or manual from -10 to 110 ℃											
Temperature Coefficient	-	0.00 to 10.00 %/℃	-	0.00 to 10.00 %/℃	− 0.00 to 10.00 %/°C							
Memory	150 da	ita sets	500 data sets									
Output	– USB or RS232											
Real-Time Clock	– Time and date stamp on calibration and stored data											
Power	Two AA batteries (included)											
	>700 hours	>500 hours	>500 hours	>300 hours		>100 hours						
	continuous use continuous use (without backlight) (without backlight) (without backlight)											
D: (I W II)	9 V DC adapter, 1.3 A (100/240 VAC, SMPS) (optional)											
Dimensions (L x W x H)	Meter: 7'/8" x 3 ¹ /8" x 2 ½" (20 x 8.3 x 5.7 cm); Boxed: 9 ¹ /8" x 9 ¹ /8" x 2 ¾" (23 x 23 x 7 cm)											
Weight	Meter: 1 lb (0.5 kg) ; Boxed: 1.4 lb (0.7 kg)											

				Electrodes				Accessories				Solutions		
Eutech 150 Series & Eutech 450 Series Configurations		Double-Junction pH Electrode (ECFC7252201B)	pH Electrode, 26 mm Diameter (ECDA9350603B)	Combi pH/Con/ ATC Electrode (COMBI03BW)	Conductivity/ATC Electrode, K = 1 (CONSEN91W)	ATC Probe (PHWPTEM01W)	RDO Electrode With Cap (RDO3M)	Glip-Clip™	Hard Carry Case	USB Cable	RDO Stainless Steel Weight/Guard	RDO Calibration Sleeve	60 mL Bottles of pH 4, pH 7, Storage Solution, DI Water	60 mL Bottles of 1413 µS, 12.88 mS, 111.8 mS, DI Water
Order Code	Product Combination													
ECPHWP15000	pH 150 Meter Only							1						
ECPHWP15002	pH 150 Meter & Electrode	1				✓		1						
ECPHWP15002K	pH 150 Meter Kit	1				1		1	1				1	
ECCONWP15003	CON 150 Meter & Electrode				1			✓						
ECCONWP15003K	CON 150 Meter Kit				1			1	1					1
ECPHWP45000	pH 450 Meter Only							1						
ECPHWP45002	pH 450 Meter & Electrode	1				1		/						
ECPHWP45002K	pH 450 Meter Kit	1				1		1	1	1			1	
ECCONWP45003	CON 450 Meter & Electrode				1			1						
ECCONWP45003K	CON 450 Meter Kit				1			✓	1	1				✓
ECDOWP45000	DO 450 Meter Only													
ECDOWP45003	DO 450 Meter & Electrode						1							
ECDOWP45003K	DO 450 Meter Kit						✓		1	✓	√	/		
ECPDWP45000	PD 450 Meter Only													
ECPDWP45004	PD 450 Meter & Electrodes		1				/							
ECPDWP45004K	PD 450 Meter Kit		✓				/		1	✓	√	1	1	
ECPCWP45000	PC 450 Meter Only							1						
ECPCWP45004	PC 450 Meter & pH & Con/ATC Electrodes	1			✓			✓						
ECPCWP45004K	PC 450 Meter Kit	1			1			1	1	1			1	✓
ECPCWP45003	PC 450 Meter & Combi Electrode			1										
ECPCWP45003K	PC 450 Meter Combi Kit			1					1	1			1	✓

DO 450 and PD 450 Utilize Optical Oxygen Technology



Features



PC 450

PC 450 Can Accept Combi Probe or Separate pH/ **Conductivity Probes**



81 % Larger Three Line **Display** 450 series add backlight

Battery Life Indicator

All Measurements Include Temperature in °C or °F

View Electrode Slope or **Probe Efficiency** At-A-Glance

Calibration Due Reminder

Set automatic notifications from 0 - 60 days

Increased Memory:

150 points for 150 series, 500 points with date/time for 450 series

450 series offers upgradable firmware and also can utilize **Free Communication Software**











MEAS

EUTECH INSTRUMENTS



Rugged Housing Floats & Meets Waterproof **IP67 Rating** (With rubber covers)



Utilizes New and Improved Grip-Clip™ **Electrode Holder**

(See page 11 for more details)



Uses Only Two AA Batteries or Optional Universal Power Supply



Integral Built-In-Stand for table use or



450 Models Offer **Output for** USB or RS232





Wolf Laboratories Limited

www.wolflabs.co.uk

Tel: 01759 301142

Fax:01759 301143

sales@wolflabs.co.uk







Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.





