

Eutech DO 450



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
- Durable waterproof and dustproof design with IP67 rating
- Large, backlit custom display provides measurement with temperature
- Switch between % saturation and mg/L (ppm) dissolved oxygen with a press of a button
- **Calibration due alarm** – Set a visible reminder when it is time to recalibrate the meter
- Manual barometric pressure and salinity correction
- **Selectable °C or °F** – Choose the unit 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)
- 500 hours battery life or use optional universal power adapter
- **Built-in stand with wall-mount** – Allows for easy benchtop measurement and storage



Calibration Chamber



RDO Weight/Guard



RDO Sensor Cap



RDO Probe



Specification Table

Dissolved Oxygen	Range	0 to 200 %; 0 to 20 ppm/mg/L
	Resolution	0.10 %; 0.1 ppm/mg/L
	Accuracy	±2 %; ±0.1 ppm or mg/L up to 8; ±0.2 ppm or mg/L above 8
	Calibration	Zero and saturation
Temperature	Range	0.0 to 50.0 °C (0.0 to 122.0 °F)
	Resolution	0.1 °C/°F
	Accuracy	±0.5 °C; ±0.9 °F
	Calibration	Offset in 0.1 increments, ±10 °C or ±18 °F
Display	Custom LCD with backlight	
Memory	Stores up to 500 data sets	
Output	USB or RS232	
Real-Time Clock	Time and date stamp on calibration and stored data	
Temperature Compensation	Yes	
Pressure & Salinity Compensation	Manual	
Power	Two AA batteries (included), >100 hours (without backlight); AC adapter (optional)	



Ordering Information

Order Code	Part No.	Description
Meter		
ECDOWP45000	01X651634	DO 450 Meter Only: Meter, two AA batteries
ECDOWP45003	01X651644	DO 450 Meter & Electrode: Meter, RDO electrode with sensor cap, two AA batteries
ECDOWP45003K	01X651635	DO 450 Meter Kit: Meter, RDO electrode with sensor cap, two AA batteries, hard carry case, USB cable, RDO stainless steel weight/guard, RDO calibration chamber
Electrodes		
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/guard, screw thread to attach to probe
RDOCALCHAMBER	RDOCALCHAMBER	Calibration chamber
60X426401	60X426401	Optional 100 / 240 VAC SMPS power adapter, 9V, 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

Meter Features	pH 150	CON 150	pH 450	CON 450	DO 450	PD 450	PC 450	
								
	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	✓	✓	✓	✓	✓	✓	✓
	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 °C							
Temperature Coefficient	–	0.00 to 10.00 %/°C	–	0.00 to 10.00 %/°C	–	–	0.00 to 10.00 %/°C	
Memory	150 data 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 continuous use	>500 hours continuous use	>500 hours (without backlight)	>300 hours (without backlight)	>100 hours (without backlight)			
Dimensions (L x W x H)	9 V DC adapter, 1.3 A (100/240 VAC, SMPS) (optional)							
Weight	Meter: 7 7⁄8" x 3 1⁄8" x 2 1⁄4" (20 x 8.3 x 5.7 cm) ; Boxed: 9 1⁄8" x 9 1⁄8" x 2 3⁄4" (23 x 23 x 7 cm) Meter: 1 lb (0.5 kg) ; Boxed: 1.4 lb (0.7 kg)							

Eutech 150 Series & Eutech 450 Series Configurations		Electrodes						Accessories					Solutions	
		Double-Junction pH Electrode (ECFC725201B)	pH Electrode, 26 mm Diameter (ECDA9350603B)	Combi pH/Con/ ATC Electrode (COMBI03BW)	Conductivity/ATC Electrode, K = 1 (CONSEN91W)	ATC Probe (PHWPTM01W)	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							✓						
ECPHWP15002	pH 150 Meter & Electrode	✓				✓		✓						
ECPHWP15002K	pH 150 Meter Kit	✓				✓		✓	✓			✓		
ECCONWP15003	CON 150 Meter & Electrode				✓			✓						
ECCONWP15003K	CON 150 Meter Kit				✓			✓	✓				✓	
ECPHWP45000	pH 450 Meter Only							✓						
ECPHWP45002	pH 450 Meter & Electrode	✓				✓		✓						
ECPHWP45002K	pH 450 Meter Kit	✓				✓		✓	✓	✓		✓		
ECCONWP45003	CON 450 Meter & Electrode				✓			✓						
ECCONWP45003K	CON 450 Meter Kit				✓			✓	✓	✓			✓	
ECDOWP45000	DO 450 Meter Only													
ECDOWP45003	DO 450 Meter & Electrode						✓							
ECDOWP45003K	DO 450 Meter Kit						✓		✓	✓	✓			
ECPDWP45000	PD 450 Meter Only													
ECPDWP45004	PD 450 Meter & Electrodes		✓				✓							
ECPDWP45004K	PD 450 Meter Kit		✓				✓		✓	✓	✓	✓		
ECPCWP45000	PC 450 Meter Only							✓						
ECPCWP45004	PC 450 Meter & pH & Con/ATC Electrodes	✓			✓			✓						
ECPCWP45004K	PC 450 Meter Kit	✓			✓			✓	✓	✓		✓	✓	
ECPCWP45003	PC 450 Meter & Combi Electrode			✓										
ECPCWP45003K	PC 450 Meter Combi Kit			✓					✓	✓		✓	✓	

Features

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**



DO 450 and PD 450
Utilize Optical Oxygen Technology



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



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 wall mounting



450 Models Offer
Output for
USB or RS232





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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.

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