

Eutech CON 450



Conductivity / Total Dissolved Solids / Salinity / Temperature

Backlit, rugged waterproof meter is ideal for any environment

- Durable waterproof and dustproof design with IP67 rating
- **Large, backlit custom display** – View measurement with temperature and cell efficiency
- **Grip-Clip™** – Quickly and easily secures the probe to your beaker or container
- Calibrate using automatically recognized standards or manually; to a single point across all ranges or to multiple points (one calibration point per each conductivity range)
- **Selectable cell constant** – 0.10, 1.00, or 10.0
- Adjustable temperature coefficient from 0.00 to 10.00 % per °C. Set to 0.0 % to meet USP methods for non-compensated measurements
- **Adjustable conductivity-to-TDS factor** – Adjustable 0.4 to 1.0
- **Selectable °C / °F** – Choose units to best fit your application
- Includes our easy to clean conductivity cell
- Ready indicator, manual or automatic measurement hold feature and optional automatic shutoff function
- **Store up to 500 data sets with data** – Use USB or RS232 output with optional data cable to send data to your software or our free communication software
- **Built-in real-time clock stamps stored data and calibration data with time and date** – Meets standards for GLP (Good Laboratory Practices)
- **Built-in stand with wall-mount** – Allows for easy benchtop measurement or storage



Specification Table

Conductivity	Range	0 to 200 mS
	Resolution	0.01 µS to 0.1 mS
	Accuracy	±1 % full scale
	Calibration	Auto/manual; 1 point/range
TDS	Range	0 to 200 ppt (TDS factor 1.0)
	Resolution	0.01 ppm to 0.1 ppt
	Accuracy	±1 % full scale
	Calibration	Manual; 1 point/range
Salinity	Range	0 to 50 ppt
	Resolution	0.01
	Accuracy	±1 % full scale
	Calibration	Manual; 1 point
Temperature	Range	-10.0 to 110.0 °C (14.0 to 230.0 °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	Automatic or manual from -10 to 110 °C	
Power	Two AA batteries (included), >300 hours (without backlight); AC adapter (optional)	
Dimensions (L x W x H)	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)
Weight	Meter	1 lb (0.5 kg)
	Boxed	1.4 lb (0.7 kg)



Ordering Information

Order Code	Part No.	Description
Meter		
ECCONWP45003	01X651632	CON 450 Meter & Electrode: Meter, conductivity cell (K = 1.0), Grip-Clip™, two AA batteries
ECCONWP45003K	01X651633	CON 450 Meter Kit: Meter, conductivity cell (K = 1.0), Grip-Clip™, two AA batteries, hard carry case, USB cable, calibration solutions
Electrodes		
ECCONSEN72W	93X244303	Conductivity/ATC cell, glass body, K = 0.1
CONSEN91W	01X244702	Conductivity/ATC cell, K = 1.0
CONSEN92W	CONSEN92W	Conductivity cell, K = 10
Accessories		
GRIPCLIP	GRIPCLIP	Grip-Clip™
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)
ECCON84BT	01X211241	84 µS conductivity standard, 480 mL
ECCON1413BT	01X211207	1413 µS conductivity standard, 480 mL
ECCON1288BT	01X211210	12.88 mS conductivity standard, 480 mL
ECCON1118BT	01X211244	111.8 mS conductivity standard, 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 (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
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			✓					✓	✓		✓	✓



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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.

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