



Eutech 150 & 450 Series Waterproof Handheld Meters

- pH • mV • ION • Conductivity • TDS • Salinity
- Dissolved Oxygen • Temperature

SOLUTIONS FOR WATER ANALYSIS

EUTECH
INSTRUMENTS
Technology Made Easy ...

Part of Thermo Fisher Scientific



Features

DO 450 and PD 450
Utilize Optical
Oxygen Technology



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



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



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)		
	9 V DC adapter, 1.3 A (100/240 VAC, SMPS) (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)						

Eutech 150 Series & Eutech 450 Series Configurations		Electrodes						Accessories				Solutions	
		Double-Junction pH Electrode (ECFC7252201B)	pH Electrode, 26 mm Diameter (ECDA9350603B)	Combi pH/Con/ ATC Electrode (COMBI038W)	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												

Eutech CON 150



Conductivity / Total Dissolved Solids / Temperature

Best value for an IP67-rated waterproof conductivity meter

- **Large, three line LCD** – View conductivity or TDS measurement with temperature as well as cell efficiency
- **Built-in memory function** – Stores up to 150 measurements along with temperature
- **Adjustable temperature coefficient** – Set to 0.0 % to meet USP methods for non-compensated measurements
- **Power with AA batteries** or use optional AC adapter
- 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)
- **Calibration due alarm** – Set a visible reminder when it is time to recalibrate the meter
- Accepts probes with a 0.1, 1.0, or 10 cell constant
- **Adjustable conductivity-to-TDS conversion factor** – From 0.4 to 1.0
- **Selectable manual or automatic temperature compensation (ATC)** – For the highest accuracy in any situation
- **Selectable °F/°C** – Choose units to best fit your application
- Ready indicator, manual or automatic measurement hold feature and optional automatic shutoff function
- Includes our easy to clean conductivity cell
- **Built-in stand** – For easy benchtop or long-term use
- **Wall-mount option** – Ideal to save bench space
- **Innovative Grip-Clip™** – Quickly and easily secures the probe to your beaker or container



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
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	Three line custom LCD	
Temperature Compensation	Automatic or manual from -10 to 110 °C	
Temperature Coefficient	0.0 to 10.0 %/°C	
Memory	Stores up to 150 data sets	
Power	Two AA batteries (included), >500 hours continuous use; 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)
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Ordering Information

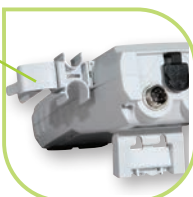
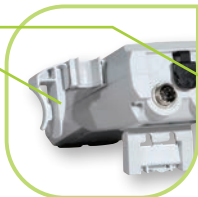
Order Code	Part No.	Description
Meter		
ECCONWP15003	01X651611	CON 150 Meter & Electrode: Meter, conductivity cell (K = 1.0), Grip-Clip™, two AA batteries
ECCONWP15003K	01X651612	CON 150 Meter Kit: Meter, conductivity cell (K = 1.0), Grip-Clip™, two AA batteries, hard carry case, calibration solution
Electrodes		
ECCONSEN72W	93X244303	Conductivity/ATC cell, glass, K = 0.1
CONSEN91W	01X244702	Conductivity/ATC cell, K = 1.0
CONSEN92W	CONSEN92W	Conductivity/ATC cell, epoxy, K = 10.0
Accessories		
GRIPCLIP	GRIPCLIP	Grip-Clip™
60X426401	60X426401	Optional 100 / 240 VAC SMPS power adapter, 9 V, 6 W
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

Eutech 150 & 450 Series

Accessories

Introducing the Grip-Clip™

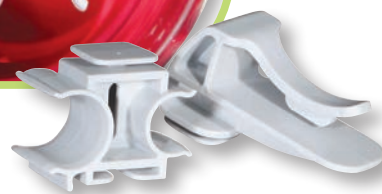
Secure Grip-Clip™ to meter for storage or rotate for one-handed measurement



16 mm Conductivity or DO Electrodes

3 mm ATC Electrode

12 mm pH Electrodes



| Grip-Clip™ | Use this innovative electrode accessory to save time while preventing electrode damage. Designed for use with a 3 mm ATC electrode, 12 mm pH electrode, and a 16 mm conductivity or DO electrode. Attach the Grip-Clip™ to your instrument when not in use or for single-handed measurement. It secures to most beakers without the need for a separate electrode arm. Keeps electrode(s) suspended during use, away from dangerous stir bars and out of harm's way. Easy-access opening allows for electrode replacement without removal of the electrode storage bottle. Allows for quick height adjustment of your electrode(s) to suit your sample container and individual preference. Don't break another electrode bulb or waste time with clumsy holders – use the Grip-Clip™!

| RS232 Thermal Printer | The convenience of printing directly from your meter whenever, wherever! This compact thermal printer connects easily to your 450 series waterproof handheld meters via RS232 – ideal for data-recording and report-generation. Connecting cables included.



Ordering Information

Order Code	Part No.	Description
60X426401	60X426401	Optional 100 / 240 VAC SMPS power adapter, 9 V, 6 W
GRIPCLIP	GRIPCLIP	Grip-Clip™; includes separate electrode holder and beaker clip
56X259306	56X259306	Hard carry case
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)
ECPHBUFKITC	01X639001	pH buffer set, pH 4 (red), 7 (yellow), 10 (blue), 480 ml each
ECPHBUFKIT	01X638901	Colorless pH buffer set, pH 4, 7 and 10 (480 mL each)
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
01X594301	01X594301	Thermal printer, includes 100-240 V power supply with plug adapters for UK, US, EU and Australia. Includes 01X594101 cable, 30X427301 cable, null modem adapter, and roll of paper
01X594401	01X594401	Replacement paper for thermal printer, two rolls



Power Adapter
(60X426401)



Hard Carry Case
(56X259306)



USB Cable
(MINIPHONEUSB)



RS232 Cable
(30X427301)



Colored & Colorless
Buffer Solutions
(ECPHBUFKITC)
(ECPHBUFKIT)



RS232 Thermal Printer
(01X594301)