

Eutech pH 450



pH / mV / Ion / Temperature

Backlit, rugged waterproof meter is ideal for any environment

- Durable waterproof and dustproof design with IP67 rating
- **Large, backlit display** – View measurement with temperature and % slope
- **Grip-Clip™** – Quickly and easily secures the pH electrode to your beaker or container
- 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
- Ready indicator, manual or automatic measurement hold feature and optional automatic shutoff function
- **Selectable °C/°F** – Choose units to best fit your application
- **Intuitive, user-friendly icons** – Electrode status displays pH slope
- **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)
- Extended battery life from two AA batteries, or use optional universal power adapter
- **Built-in stand with wall-mount option** – Allows for easy benchtop measurement or storage
- Compatible with pH, ORP or ISE electrodes having a BNC connector



Specification Table

pH	Range	-2.00 to 16.00 pH
	Resolution	0.01 pH
	Accuracy	±0.01 pH
	Calibration	Up to 5 points (USA & NIST & CUSTOM) Up to 6 points (DIN)
mV	Range	±2000 mV
	Resolution	0.1 mV ±999.9 mV; 1 mV beyond
	Accuracy	±0.2 mV +2 LSD or +0.5 % of reading; whichever is greater
	Calibration	±200 mV
Ion	Range	0.0 to 2000 ppm
	Resolution	0.01 / 0.1 / 1 ppm
	Accuracy	±0.5 % full scale (monovalent); ±1 % full scale (divalent)
	Calibration	From 2-4 or 2-5 points: 0.10, 1.00, 10.0, 100.0 & 1000 / 0.20, 2.00, 20.0, 200.0 & 2000 / 0.50, 5.00, 50.0 & 500.0
Temperature	Range	-10.0 to 110.0 °C (14.0 to 230.0 °F)
	Resolution	0.1 °C
	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), >500 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		
ECPHWP45000	01X651628	pH 450 Meter Only: Meter, Grip-Clip™, two AA batteries
ECPHWP45002	01X651629	pH 450 Meter & Electrode: Meter with double junction pH electrode and ATC probe, Grip-Clip™, two AA batteries
ECPHWP45002K	01X651630	pH 450 Meter Kit: Meter with double-junction pH electrode and ATC probe, Grip-Clip™, two AA batteries, hard carry case, USB cable, pH buffers, storage solution, rinse solution
Electrodes		
ECFC7252201B	01X099417	Replacement pH electrode, double-junction, epoxy body, BNC
ECFE7372801W	93X218990	pH electrode with built-in ATC. Double-junction, epoxy body, BNC
ECFC7352901W	01X218995	pH electrode with built-in ATC. Single-junction, epoxy body, BNC
ECFC7960201B	01X256613	ORP electrode. Double-junction, epoxy body, gel-filled, BNC
PHWPTM01W	01X021807	ATC probe. Use with any standard pH electrode for temperature compensation
Accessories		
GRIPCLIP	GRIPCLIP	Grip-Clip™
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)
ECPHBUFKITC	01X639001	pH buffer set, pH 4 (red), 7 (yellow), 10 (blue), 480 mL each
ECPHBUFKIT	01X638901	Colourless pH buffer set, pH 4, 7 and 10 (480 mL each)