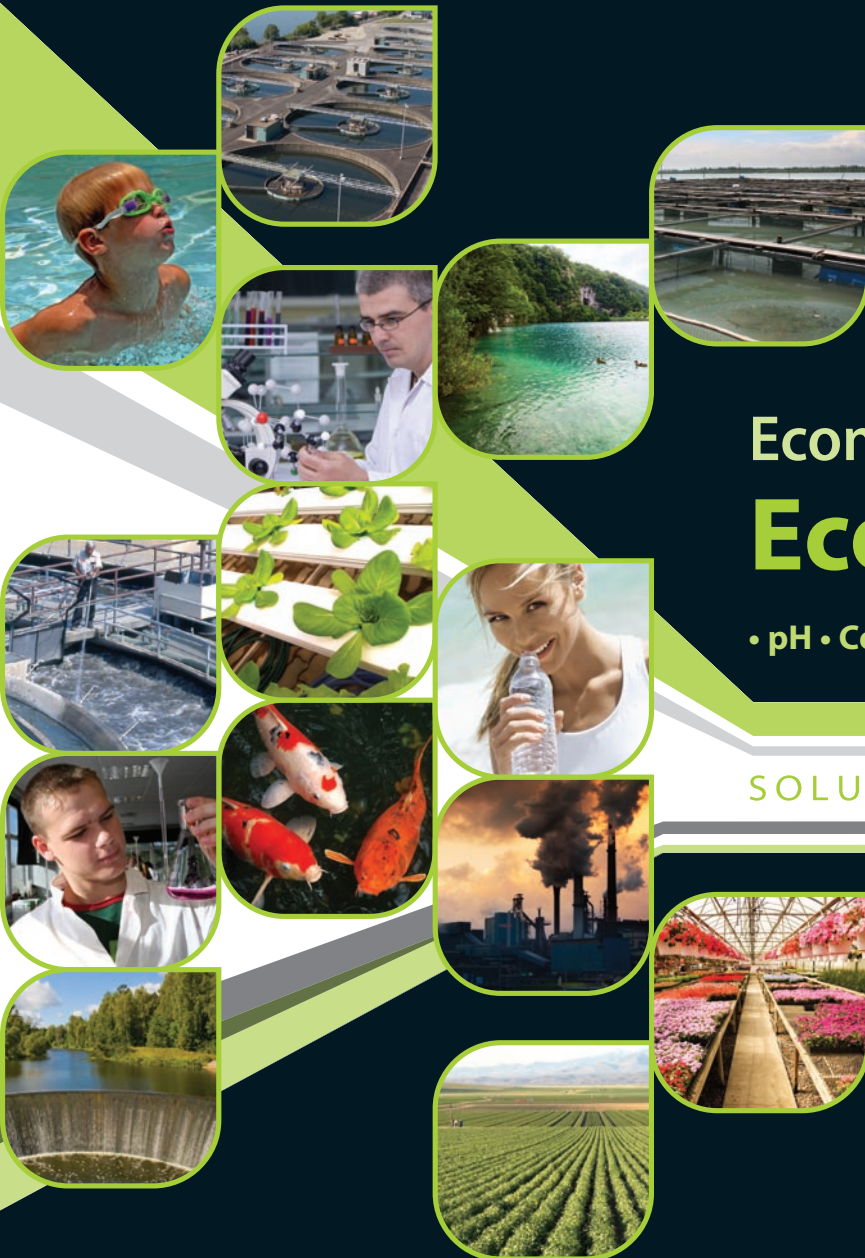


**EUTECH**  
**INSTRUMENTS**

*Technology Made Easy ...*



## Economy Waterproof Testers **EcoTestr Series**

• pH • Conductivity • TDS • Salinity

SOLUTIONS FOR WATER ANALYSIS



# Corporate Profile



**| Over 15 Years of Product Excellence |** Eutech Instruments is a leading ISO9001-certified company established in 1990. Dedicated to the design and manufacture of sensor-based instruments for water quality analysis, Eutech is a pioneer in the development of ASIC-based (Application Specific Integrated Circuit) instruments, and is internationally recognised for its achievements in sensor technology, software programming and product design. Eutech has an extensive product line, which includes the world's first Windows® CE-driven colour touchscreen research-grade bench meter.

**| Commitment to R&D |** Eutech's competitiveness comes from our strong commitment to R&D. This is backed by a dedicated team of scientists and engineers which thrives on meeting new technological challenges to simplify laboratory and field analytical procedures. The Eutech team is constantly driven to explore the latest technologies and applying them in our design and manufacture of advanced instruments. The result is a unique line of products that are accurate, consistent, reliable and easy to use.

**| Comprehensive Product Line |** Eutech's constant drive for innovation is reason for our unique and expansive portfolio of microprocessor-based instruments and chemical sensor systems. We offer a comprehensive range of laboratory and field instruments for electrochemical and photometric water analysis. Eutech also manufactures continuous on-line process instruments for the monitoring and control of pH, Conductivity, Total Dissolved Solids (TDS), Redox Potential (ORP), Dissolved Oxygen (DO) and other water quality parameters.

Eutech products range from compact pocket testers and portable meters to research-grade benchtop meters and industrial process controllers. Each product carries the signature Eutech intuitive design and is packed with advanced user-friendly features.

**| Customer Focus |** Every Eutech innovation is conceptualised with the user in mind. This, coupled with our strategic location in the design and technology hub of Asia, has enabled the company to produce cutting edge instruments at competitive prices. Our consistent demonstration of insight into customer needs and product demands has earned the company consecutive Frost & Sullivan Market Engineering awards for Product Line Strategy.

Driven by a successful Total Customer Satisfaction Program incorporated in the ISO9001:2000 Quality System, all products undergo extensive testing and calibration by a qualified team of technical experts. Stringent quality control measures guarantee consistency, durability and performance. Eutech products are certified to comply with various global testing standards.

**| Forging New Frontiers in Water Analysis |** Underlying Eutech's objective to be a world leader in the field of water analysis instrumentation, the company adopts a proactive stand in anticipating the needs of the industry. With increasing global awareness and concern for water quality, the future provides new and exciting challenges and opportunities. To realize the potential of advanced water analytical technologies, Eutech will continue to forge close links and strategic alliances with research institutions, government agencies and private sector firms worldwide. These efforts support the Eutech mission – to make advanced technology easy to use.

**| Global Reach |** Eutech products are marketed in over seventy countries worldwide, through an extensive network of associate companies and distributors, with manufacturing facilities in Singapore and Malaysia. Eutech Instruments Singapore has a full-fledged value-chain operation which comprises R&D, manufacturing, marketing, customer service and logistics for worldwide support to customers.

**| Thermo Fisher Scientific |** Eutech is part of Thermo Fisher Scientific, the world leader in serving science. Thermo Fisher Scientific enables customers to make the world healthier, cleaner and safer by providing analytical instruments, equipment, reagents and consumables, software and services for research, analysis, discovery and diagnostics. With annual sales of more than \$9 billion, Thermo Fisher Scientific has 30,000 employees and serves more than 350,000 customers in pharmaceutical and biotech companies, hospitals and clinical diagnostic labs, universities, research institutions and government agencies as well as environmental, industrial quality and process control settings.

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## Main Features

- User-Friendly
- Large, Easy-To-Read LCD
- Auto-Calibration
- Automatic Temperature Compensation
- All Push-Button Operation
- Bouyant, IP67 Waterproof Housing

Economy  
Waterproof Testers

# EcoTestr Series



### Click-Lock Battery Compartment

Simply lift and remove cover to replace batteries. No additional tools required.

**Pocket Clip** secures tester firmly to your belt or pocket



### Easy To Use

Push-button operation with clearly assigned keypad makes tester a breeze to use.

**Tactile Switch Keypad** lasts longer than ordinary keypad



### IP67 Waterproof

Lightweight tester floats on water for easy retrieval.



### Transparent Protective Cap

Doubles up as a container for sensor conditioning or on-site calibration.



### Non-Volatile Memory

Retains tester settings even when batteries run out – no need to recalibrate each time you change batteries.

### Large, Upright LCD

With parameter display and battery level indicator for easy reading.

### Easy Push-Button Calibration

Microprocessor-powered tester requires no screwdriver for calibration. Simply immerse sensor in calibration solution, pause for reading to stabilise and press "CAL"!

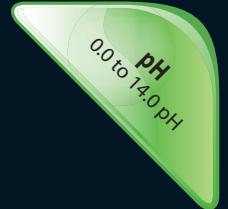
### Automatic pH Calibration

Calibrating your EcoTestr pH Series is a breeze with the auto-calibration feature! Switch tester to calibration mode, immerse sensor in pH buffer solution and leave tester to do the rest

### Automatic Temperature Compensation\*

Adjusts readings according to temperature change automatically for greater accuracy.

\* For EcoTestr pH 2 only



## EcoTestr pH 1 & pH 2

### pH / Temperature

pH measurement is a breeze with the Eutech EcoTestr pH 1 and pH 2 – an economical range of pocket-size testers designed for fuss-free pH measurements on the go. Accurate and easy to use, these testers are ideal for quick pH measurements in hydroponic gardening, aquaculture, agriculture, pools, simple lab work and other water/wastewater applications.

- $\pm 0.1$  % accuracy across full pH range
- Auto-buffer recognition and auto-calibration functions – quick, easy calibrations at the press of a button
- Long-lasting sensor – large volume of polymer gel reference gives longer sensor lifespan, while single Kynar<sup>®</sup> reference junction prevents clogging
- EcoTestr pH 2 features Automatic Temperature Compensation and up to three calibration points for broadened accuracy throughout the pH range

**Applications:** • Water and wastewater treatment • Environmental monitoring • Education • Hydroponics • Agriculture • Aquaculture and aquariums • Pools and spas • Food and beverage manufacturing • Cooling towers • Electroplating • Printing • Photo-development and more!

#### Q: Do I need to calibrate my tester?

**A:** Regular calibration helps to maintain tester accuracy.

#### Q: What is 3-point calibration?

**A:** Single-point calibration only allows calibration at one chosen point, which should be near the pH range of your application. 3-point calibration allows calibration at 3 different points (pH 4, 7 and 10) to give you  $\pm 0.1$  pH accuracy across the acid and alkali ranges. If your application requires pH measurements that vary greatly, you should use EcoTestr pH 2, which offers 3-point calibration.

#### Q: Do I need Automatic Temperature Compensation (ATC)?

**A:** The necessity of ATC depends on your accuracy requirement. Sensor sensitivity to pH changes with temperature variation. With ATC, the tester automatically detects and compensates for such temperature variations.

eco  
Testr **pH 1**



Aquaculture/Aquariums



Swimming Pools



Hydroponics/Agriculture

eco  
Testr **pH 2**



Water/Wastewater Treatment



Environmental Monitoring



Education

Conductivity  
... to 19.90 mS/cm



## EcoTestr EC High & EC Low

### Conductivity / Temperature

The Eutech EcoTestr EC High and EC Low come with rugged, sturdy stainless steel pin sensors, giving you quick, reliable conductivity measurements. Ideal for use in a wide range of conductivity applications, such as hydroponics gardening, fish-farming, pools, electroplating and other water/wastewater applications.

- EcoTestr EC High measures from 0 to 19.90 mS/cm  
EcoTestr EC Low measures from 0 to 1990 µS/cm;
- Up to ±1 % full scale accuracy
- Manual calibration option for better accuracy with near-to-sample calibrations

**Applications:** • Water and wastewater treatment • Environmental monitoring • Education • Hydroponics • Agriculture  
• Aquaculture and aquariums • Pools and spas • Food and beverage manufacturing • Cooling towers • Electroplating • Printing  
• Photo-development and more!

ecoTestr **EC HIGH**



Laboratories



Hydroponics



Environmental In-Situ Testing

ecoTestr **EC LOW**



Horticulture/Agriculture



Industrial



Drinking Water

**Total  
Dissolved Solids**  
... to 10.00 ppt



## EcoTestr TDS High & TDS Low

### Total Dissolved Solids / Temperature

Economical and easy to use, the Eutech EcoTestr TDS High and TDS Low come with adjustable TDS factor, allowing you to measure TDS in a wide range of applications such as hydroponics gardening, fish-farming, pools, electroplating and other water/wastewater applications.

- EcoTestr TDS High measures from 0 to 10.00 ppt; EcoTestr TDS Low measures from 0 to 1990 ppm
- Adjustable TDS factor from 0.4 to 1.0
- Up to  $\pm 1\%$  full scale accuracy
- Manual calibration option for better accuracy with near-to-sample calibrations

**Applications:** • Hydroponics • Agriculture • Aquaculture and Aquariums • Environmental monitoring • Water and wastewater treatment • Cooling towers • Electroplating rinse tanks • Drinking water • Detergent • Printing • Photo-development and more!

eco  
Testr **TDS HIGH**



Water Treatment



Agriculture



Environmental In-Situ Testing

eco  
Testr **TDS LOW**



Water Treatment



Hydroponics



Environmental In-Situ Testing

Salinity  
... to 10.00 ppt



## EcoTestr Salt

### Salinity / Temperature

Measure Salinity economically and quickly with the Eutech EcoTestr Salt. Rugged with stainless pin sensor and IP67 waterproof housing, the EcoTestr Salt delivers reliably, even in harsh field conditions. Ideal for basic salinity measurements in aquaculture, spas, pools, simple lab work and other water/wastewater applications.

- Measures up to 10.00 ppt at  $\pm 2\%$  full scale accuracy
- Manual calibration option for better accuracy with near-to-sample calibrations

*Applications:* • Aquaculture • Fish ponds (koi) • Food processing • Pools and spas • Environmental monitoring and more!

eco  
Testr **Salt**



Swimming Pools



Environmental Monitoring



Aquaculture



# Ordering Information

## Testers

Model	Order Code	Part No.	Description
pH	ECPHTEST1	01X460901	Waterproof EcoTestr pH 1
pH	ECPHTEST2	01X460902	Waterproof EcoTestr pH 2 with ATC
EC	ECOECTESTLOW	01X477101	Waterproof EcoTestr EC Low
EC	ECOECTESTHIGH	01X477102	Waterproof EcoTestr EC High
TDS	ECOTDSTESTLOW	01X477103	Waterproof EcoTestr TDS Low
TDS	ECOTDSTESTHIGH	01X477104	Waterproof EcoTestr TDS High
Salt	ECOSALTTEST	01X477105	Waterproof EcoTestr Salt

## Accessories

Model	Order Code	Part No.	Description
pH 1&2	ECBU4BT	01X211201	pH 4.01 buffer solution, 480 ml bottle
pH 1&2	ECBU7BT	01X211202	pH 7.00 buffer solution, 480 ml bottle
pH 1&2	ECBU10BT	01X211203	pH 10.01 buffer solution, 480 ml bottle
pH 1&2	ECRE005	01X211206	Storage solution for pH sensor, 480 ml bottle
pH 1&2	ECDPCBT	01X211216	Protein remover solution, 480 ml bottle
pH 1&2	ECBU4BS	01X223102	pH 4.01 buffer sachets (NIST traceable), box of 20 x 20 ml sachets
pH 1&2	ECBU7BS	01X223101	pH 7.00 buffer sachets (NIST traceable), box of 20 x 20 ml sachets
pH 1&2	ECBU10BS	01X223103	pH 10.01 buffer sachets (NIST traceable), box of 20 x 20 ml sachets
pH 1&2	ECRINWT	01X223201	pH deionized water rinse sachets (NIST traceable), box of 20 x 20 ml sachets
EC High	ECCON2764BT	01X211214	2764 µS/cm KCl calibration solution, 480 ml bottle
EC High	ECCON1288BT	01X211210	12.88 mS/cm KCl calibration solution, 480 ml bottle
EC Low	ECCON100BT	01X211217	100 µS/cm KCl calibration solution, 480 ml bottle
EC Low	ECCON1413BT	01X211207	1413 µS/cm KCl calibration solution, 480 ml bottle
TDS High	EC4423000BT	01X109101	3.00 ppt 442 calibration solution, 480 ml bottle
TDS Low	EC442300BT	01X109102	300 ppm 442 calibration solution, 480 ml bottle
TDS Low	EC4421000BT	01X109104	1000 ppm 442 calibration solution, 480 ml bottle
Salt	ECNACL5PPT	01X211230	5 ppt NaCl calibration solution, 480 ml bottle

(\*MSDS and COA can be downloaded at <http://www.eutechinst.com>)



# Eutech Economy Waterproof Testers



## Specification Tables







**Warranty** | Warranted against manufacturing defects for a period of ONE year from date of purchase.




Eutech reserves the right to make changes, improvements and modifications to products shown.

pH Waterproof Testers		eco Testr <b>pH2</b>		eco Testr <b>pH1</b>	
					
pH	Range	0.0 to 14.0 pH			
	Resolution	0.1 pH			
	Accuracy	±0.1 pH			
	Calibration	3-point ; automatic		1-point ; automatic	
	Automatic Temperature Compensation (ATC)	Yes		-	
Tester Features	Non-Volatile Memory	Yes			
	Hold Function	Yes			
	Auto-Off	8.5 mins after last key press			
	LCD Display	3½ digit with annunciator			
	Power	4 x 1.5 V 'A76' micro alkaline batteries			
	Operating Temperature	0 to 50 °C			
	Ingress Protection	IP67 rating ; waterproof			
Dimension (LxWxH) ; Weight	Tester	16.3 x 4.5 x 3 cm ; 90 g			
	Packed	24.5 x 13.5 x 4.5 cm ; 137 g			

EC Waterproof Testers		eco Testr <b>EC HIGH</b>		eco Testr <b>EC LOW</b>	
					
Conductivity	Range	.. to 19.90 mS/cm		.. to 1990 µS/cm	
	Resolution	0.1 mS/cm		10 µS/cm	
	Accuracy	±1 % full scale (±2 % above 10 mS/cm)		±1 % full scale	
	No. Of Cal Points	1			
	Calibration Method	Digital, push button			
	Automatic Temperature Compensation (ATC)	Yes			
Tester Features	Non-Volatile Memory	Yes			
	Hold Function	Yes			
	Auto-Off	8.5 mins after last key press			
	LCD Display	3½ digit single line			
	Power	4 x 1.5 V 'A76' micro alkaline batteries			
	Operating Temperature	0 to 50 °C			
	Ingress Protection	IP67 rating ; waterproof			
Dimension (LxWxH) ; Weight	Tester	16.3 x 4.5 x 3 cm ; 90 g			
	Packed	24.5 x 13.5 x 4.5 cm ; 137 g			

TDS Waterproof Testers		eco Testr <b>TDS HIGH</b>		eco Testr <b>TDS LOW</b>	
					
TDS	Range	.. to 10.00 ppt		.. to 1990 ppm	
	Resolution	0.1 ppt		10 ppm	
	Accuracy	±1 % full scale (±2 % above 5 ppt)		±1 % full scale	
	No. Of Cal Points	1			
	Calibration Method	Digital, push button			
	TDS Factor	0.50 to 1.00 (factory set to 0.71)		0.40 to 1.0 (factory set to 0.71)	
	Automatic Temperature Compensation (ATC)	Yes			
Tester Features	Non-Volatile Memory	Yes			
	Hold Function	Yes			
	Auto-Off	8.5 mins after last key press			
	LCD Display	3½ digit single line			
	Power	4 x 1.5 V 'A76' micro alkaline batteries			
	Operating Temperature	0 to 50 °C			
Dimension (LxWxH) ; Weight	Ingress Protection	IP67 rating ; waterproof			
	Tester	16.3 x 4.5 x 3 cm ; 90 g			
	Packed	24.5 x 13.5 x 4.5 cm ; 137 g			

Salt Waterproof Testers		eco Testr <b>Salt</b>	
			
Salt	Range	.. to 10.00 ppt	
	Resolution	0.1 ppt	
	Accuracy	±1 % full scale (±2 % above 5 ppt)	
	No. Of Cal Points	1	
	Calibration Method	Digital, push button	
	Automatic Temperature Compensation (ATC)	Yes	
	Tester Features	Non-Volatile Memory	Yes
Hold Function		Yes	
Auto-Off		8.5 mins after last key press	
LCD Display		3½ digit single line	
Power		4 x 1.5 V 'A76' micro alkaline batteries	
Operating Temperature		0 to 50 °C	
Dimension (LxWxH) ; Weight	Ingress Protection	IP67 rating ; waterproof	
	Tester	16.3 x 4.5 x 3 cm ; 90 g	
	Packed	24.5 x 13.5 x 4.5 cm ; 137 g	

Eutech Instruments manufactures a comprehensive range of laboratory and field instrumentation for water analysis. Eutech Instruments also produces on-line process instruments for water quality monitoring and control. Innovative products from Eutech include:

Dual Display Testers | EcoScan Handhelds | Waterproof Colorimeters and Turbidimeters | CyberScan Handhelds | CyberScan Bench Meters | CyberScan Touchscreen Meters

**| World-Wide Sales and Service Support |** Eutech provides world-wide sales and service support for all its products through its network of international distributors. Contact us at [eutech@thermofisher.com](mailto:eutech@thermofisher.com) for details of your nearest distributor.



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