Waterproof Handheld Colorimeters & Turbidimeters

Chlorine (Free & Total) • Cyanuric Acid • pH
Chlorine Dioxide • Bromine • Ozone • Turbidity

SOLUTIONS FOR WATER ANALYSIS

1.117.







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, as well as instruments with proprietary patents and trademarks.

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 who 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 to 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 the reason for our unique and expansive portfolio of microprocessorbased instruments and chemical sensor systems. We offer a comprehensive range of laboratory and field instruments for electrochemical and photometric water analysis. Eutechalso 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

• US EPA-Approved DPD Method

One-Time Blanking

High Quality Reagent in Single-Test Sachets

Eutech Waterproof Colorimeter

High Quality Reagents High-quality, customformulated powder reagents for exceptional accuracy, repeatablility and stability

No Pre-Calibration Required for Chlorine and Cyanuric Acid

One-Time Blanking

Useful when performing multiparameter analysis or repeated measurements on a sample. Non-volatile memory stores blanking value, so data is safe even when batteries run out

US EPA-Approved DPD Method

Chlorine measurements are based on US EPA-approved DPD method, so results can be reliably used for reporting purposes* * Subject to local regulatory guidelines





No Detachable Parts,

No Flip Covers Meter uses separate high-quality glass vials that fit perfectly into sample well – no rinsing of instruments in between tests, and no detachable light shield or flip covers required



Easy-To-Read Display Large LCD screen displays self-diagnostic and trouble-shooting messages



Rugged Kit Set Meter comes with accessories conveniently packed in a rugged carrying case – your complete on-the-go solution for colorimetry and turbidity measurements!

Accurate Readings in Three Easy Steps!



Step 1: Blank Meter Place a vial of sample liquid in meter's sample well and press 'ZERO'. (Meter flashes 'STDBY' followed by 'ZERO' to confirm blanking)



Step 2: Add Reagent Add one sachet of reagent and insert vial securely into meter's sample well



Step 3: Measure Press READ/ENTER to obtain reading

• US EPA-Approved Non-Formazin Standards

Main Features

ISO 7027 Compliant

Auto-Ranging up to 1000 NTU

Features:



Accurate Results with excellent test-totest repeatability

IP67 Waterproof Meter so light, it floats!



Convenient and Easy To Use Auto-ranging meter features push-button calibration



Advanced Power Management

Performs up to three thousand tests** with just four 'AAA' alkaline batteries. Meter autopowers off after ten minutes of inactivity to conserve energy



Turbidimeter

Eutech Waterproof

4-point push-button calibration for full-range lab-accurate results

No Indexing Required with high quality glass vials. Simply align mark on vial with mark on meter

Infrared Light Source ensures consistent light emission throughout meter's lifespan

US EPA-Approved Non-Formazin Method More stable with no contamination to end-users, equipment and environment



** Power requirement varies from meter to meter. Please refer to specification tables on page 11 for more details.

Colorimetry Analysis

Disinfection effectiveness depends on your system's overall water chemistry, and not just on the disinfectants' concentrations alone. The following section provides a brief overview on the measurement of each parameter:

1. Chlorine

Chlorine and Chlorine-released compounds are common sanitizers for swimming pools, drinking water and other water treatment systems. The disinfection efficiency is a direct function of the level of free Chlorine in a system; Total Chlorine is the sum of Free Chlorine and Combined Chlorine.

Water disinfected by Chlorine can sometimes emit a strong pungent smell. Contrary to popular thoughts, this smell is caused by insufficient, not too much, Free Chlorine. While sufficient Chlorine is necessary to keep pathogens and unpleasant smells at bay, it is essential that the right amount is present. Too little Chlorine decreases disinfectant efficiency; too much Chlorine poses as a health hazard.

2. Cyanuric Acid

Cyanuric Acid is often present as a stabilizer in applications where Chlorine is used for disinfection. Low levels of Cyanuric Acid are beneficial as they prevent wastage of Free Chlorine by the sun's UV rays. However, too much Cyanuric acid can cause the Chlorine to take a longer time to kill the micro-organisms.

It is important to test your water sample and determine how much Cyanuric Acid should be added to maximize Chlorine efficiency. Cyanuric Acid build-up is uncommon with proper pool maintenance.







3. Bromine

Bromine is comparatively less reactive than Chlorine due to its high boiling point, making it more stable as a disinfectant, but at the same time, unsuitable for outdoor use. As a disinfectant, Bromine has many advantages over chlorine – it has fewer odors, and is less likely to cause eye and skin irritations. In addition, Bromine remains effective at high temperatures and its disinfecting efficiency is not affected by pH fluctuations.

The disadvantages are that Bromine is more expensive than Chlorine and it cannot be stabilized for outdoor use.

4. Ozone

Ozone is one of the strongest and most rapid sanitizers available. It is odorless, does not cause eye or skin irritations, and does not pose as a health hazard. However, Ozone is highly unstable and generally dissipates within five minutes of introduction to the water. Hence, despite its ability to purge pathogens, Ozone should be used with another disinfectant to create sanitizer residual in the water.

5. Chlorine Dioxide

Despite its chemical name, Chlorine Dioxide is not considered as a Chlorine-based disinfectant, and does not release Free Chlorine. However, it is a strong oxidizer and performs oxidation very cleanly when introduced in small amounts.

The use of Chlorine Dioxide as a disinfectant is seeing growth in many industrial applications. Unlike Chlorine, Chlorine Dioxide is remains as a true gas when dissolved in water. The lack of significant reaction of Chlorine Dioxide with water is partly responsible for its retaining its disinfecting effectiveness over a wide pH range. This property makes it a logical choice for cooling systems operated in the alkaline pH range, or cooling systems with poor pH control. Other applications for Chlorine Dioxide includes the food processing industry, the pulp and paper industries and the potable water and waste water treatment industries.

6. pH

pH affects the amount of free Chlorine that is formed, and therefore determines the effectiveness of Chlorine as a disinfectant. As pH increases, the disinfecting power of Chlorine decreases. High pH causes scaling of water surfaces, pipework and fittings; this may result in cloudy water. Low pH can corrode metals in pipeworks and fittings; this may cause metal oxides to stain water surfaces.

Turbidity Analysis

Turbidity is the measure of relative sample clarity, not colour. It is defined as "an expression of the optical property that causes light to be scattered and absorbed rather than transmitted in straight lines through the sample"*. Turbidity indicates the presence of bacteria, pathogens, or particles that can shelter harmful organisms from the disinfection process. Therefore, turbidity measurements are particularly useful for water treatment to ensure cleanliness, and are part of the quality control measures in industrial processes to ensure treatment efficiency.

There are two internationally accepted standard specifications for turbidity measurements – ISO 7027 and the US EPA method 180.1.

Eutech Waterproof Colorimeter Series





C 401; C 301; C 201

Free Chlorine & Total Chlorine (0 – 6.0 ppm)

The complete solution for your pool measurement needs! Eutech's C 401 allows you to measure Free Chlorine, Total Chlorine, Cyanuric Acid and pH all with one meter. The DPD Method is US EPA-accepted for reported drinking water analyses (Free and Total Chlorine) and wastewater analyses (Total Chlorine only).

- C 401 measures Free Chlorine, Total Chlorine, Cyanuric Acid and pH
- C 301 measures Free Chlorine, Total Chlorine and pH
- C 201 measures Free Chlorine and Total Chlorine

C 102

Cyanuric Acid (5 – 90 ppm)

Designed for fuss-free, accurate measurement of Cyanuric Acid, Eutech's auto-ranging C 102 Colorimeter is user-friendly, intuitive and requires no pre-calibration.

C 104

Bromine (0 – 13.5 ppm)

Measuring Bromine on-the-go is a breeze with Eutech's C 104 colorimeter. Non-carcinogenic DPD Method with special-formulated reagent powder ensures accurate results with excellent repeatability.

C 105

Ozone (0 – 4.1 ppm)

Instant, accurate Ozone measurements in just three quick, easy steps! Eutech's C 105 colorimeter uses non-carcinogenic DPD Method for Ozone measurement, and comes complete in a kit form with single-test reagent sachets and sample vials.

C 103

Chlorine Dioxide (0 – 11.4 ppm)

Whether it's one-time measurement or multiple testing, Chloride Dioxide measurement is easy with Eutech's C 103 colorimeter. User-friendly and convenient to use, all it takes is three simple steps to obtain accurate Chlorine Dioxide measurements – no pre-calibration required!

C 101

pH (5.9 – 8.2 pH)

Powered by advanced microprocessor technology, Eutech's C 101 colorimeter is self-diagnostic to warn of irregularities in the detector or light-source, and employs the Phenol-Red method for quick, accurate pH measurements.

Applications: • Pools • Spas • Food and beverage processing industry • Pulp mills • Potable water • Treated water • Wastewater

Eutech Waterproof Turbidimeter Series





TN 100

Achieve lab-accurate, highly repeatable turbidity results during field work with Eutech's TN 100. The lightweight meter operates on nephelometric principle of turbidity measurements, and is designed in compliance with ISO 7027 and DIN 27027 standards. The meter comes in a complete set with sturdy carry case, high-quality borosilicate vials and US EPA-approved non-formazin standards.

- Large, custom-designed LCD
- Rapid meter requires only 6-seconds for full-step change
- 4-point push-button calibration for lab-accurate results and excellent repeatability
- US EPA-approved non-formazin standards more stable with no pollution to the environment
- · Lightweight meter is IP67 waterproof and floats for easy retrieval



CyberScan TB 1000

Designed for ease-of-use, simple operation and minimal maintenance, the TB 1000 is self-diagnostic and easily customized at any time during normal operation. The auto-ranging meter assures fast, accurate readings at best possible resolution, and features up to 3-point push-button calibration for ± 0.2 % full-range accuracy.

 Choose between white light or Infrared light sources: White light TB 1000 designed to meet US EPA method 180.1; Infrared TB 1000 designed to meet ISO7027 and DIN 27027 specifications for turbidity measurements

- Date and time stamping in GLP-compliant format
- Self-diagnostic meter alerts user when lamp module requires replacement
- Calibration alarm alerts user to update calibration at scheduled intervals no more out-dated calibrations!
- RS232 for seamless data-transfer
- Quick-connect light module for easy replacement
- Optional pour-through assembly module for instantaneous sampling without the need for cuvettes

Applications: • Potable water • Petrochemical • Electroplating • Aquaculture • Swimming pool • Food and beverage industry

Eutech Colorimeters & Turbidimeters Accessories



Colorimeter

Color Reference Kit | Three 30 ml colour reference standards and one blank vial for quick, easy calibration-checks during field testing.

Reagent Kit | 100 high-quality powder reagents in individual single-test sachets.

Sample Vials | Sample borosilicate glass vials with light-shield screw caps, fill line and indexing marks (comes in packs of three).

[CyberKit] Cyberkit made from sturdy reinforced plastic, thoughtfully designed to hold your meter, reagents and calibration standards







Sample Vials



CyberKit

Turbidimeter

[Turbidity Calibration Kit Sets | Four 30ml primary calibration standards (0.02, 20.0, 100 and 800 NTU) for quick, easy calibration-checks during field testing.

Silicon Oil (10 ml) Fill small scratches and masks imperfections in glass vials.

Sample Vials Sample borosilicate glass vials with light-shield screw caps, fill line and indexing marks (comes in packs of three).

[CyberKit] Cyberkit made from sturdy reinforced plastic, thoughtfully designed to hold your meter, reagents and calibration standards



Turbidity Calibration Kit Sets







Eutech Colorimeters & Turbidimeters Ordering Information

Meters

	Model	Order Code	Part No.	Description
Colorimeter	Multi	ECC401	01X376906	Waterproof Free Chlorine, Total Chlorine, Cyanuric Acid & pH Colorimeter Kit Set with Reagents & Carrying Case
	Multi	ECC301	01X376905	Waterproof Free Chlorine, Total Chlorine & pH Colorimeter Kit Set with Reagents & Carrying Case
	Cl	ECC201	01X376904	Waterproof Free Chlorine, Total Chlorine Colorimeter Kit Set with Reagents & Carrying Case
	рН	ECC101	01X376902	Waterproof pH Colorimeter Kit Set with Reagents & Carrying Case
	$C_3H_3N_3O_3$	ECC102	01X376903	Waterproof Cyanuric Acid Colorimeter Kit Set with Reagents & Carrying Case
	CIO ₂	ECC103	01X376915	Waterproof Chlorine Dioxide Colorimeter Kit Set with Reagents & Carrying Case
	Br ₂	ECC104	01X376916	Waterproof Bromine Colorimeter Kit Set with Reagents & Carrying Case
	O ₃	ECC105	01X376917	Waterproof Ozone Colorimeter Kit Set with Reagents & Carrying Case
neter	TN 100	ECTN100IR	01X357301	Waterproof TN 100 Infra-Red Turbidimeter (NTU) with Calibration Kit & Carrying Case
Turbidimeter	TB 1000	ECTBDW100010	01X259105	CyberScan TB 1000 White Light Turbidity Bench Meter (NTU) with Calibration Kit & 120 VAC Power Adapter
	TB 1000	ECTBDW100020	01X259106	CyberScan TB 1000 White Light Turbidity Bench Meter (NTU) with Calibration Kit & 220 VAC Power Adapter
	TB 1000	ECTBDIR100010	01X259103	CyberScan TB 1000 Infra-Red Turbidity Bench Meter (NTU) with Calibration Kit & 120 VAC Power Adapter
	TB 1000	ECTBDIR100020	01X259104	CyberScan TB 1000 Infra-Red Turbidity Bench Meter (NTU) with Calibration Kit & 220 VAC Power Adapter

Accessories

	Model	Order Code	Part No.	Description				
neter	Cl	94X377001	94X377001	Free Chlorine (DPD) Reagent Kit, Pack of 100 Satchets (Also Used As Chlorine Dioxide Reagent)				
Colorimeter	Cl	94X377002	94X377002	Total Chlorine (DPD) Reagent Kit, Pack of 100 Sachets (Also Used As Brom or Ozone Reagent)				
	C ₃ H ₃ N ₃ O ₃	94X377003	94X377003	Cyanuric Acid Reagent Kit, Pack of 100 Sachets				
	рН	94X377004	94X377004	pH Indicator (Phenol Red) Reagent Kit, 1 Bottle				
	CIO ₂	94X377005	94X377005	Glycine (DPD) Reagent Kit, Pack of 100 Sachets (Used as Chlorine Dioxide Reagent)				
	Others	ECTN100CUVKIT	01X274902	Pack of 3 Sample Cuvettes (For TN 100 & Colorimeter Series)				
	Others	ECCLCOLORREF	01X274806	Chlorine Colour Reference Kit Set for C 401, C 301, C 201, C 103, C 104, C 105				
ter	TN 100	ECTN100CALKIT	01X274802	Calibration Kit Set for TN 100IR (0.02, 20.0, 100, 800 NTU)				
E	TN 100	ECTN100CUVKIT	01X274902	Pack of 3 Sample Cuvettes (For TN 100 & Colorimeter Series)				
Iurpiaimeter	TN 100	ECSILICONEOIL	01X358701	Silicone Oil (10 ml) for TN 100IR				
⊇	TB 1000	ECTBDWCALKT	01X265101	Calibration Kit Set for TB 1000W (0.02, 10.0, 1000 NTU)				
	TB 1000	ECTBDIRCALKT	01X265102	Calibration Kit Set for TB 1000IR (0.02, 10.0, 1000 NTU)				
	TB 1000	ECMICRO100CBL	30X219502	Customized RS232 Cable for TB 1000 Meter Series to Serial Printer				
	TB 1000	01X344318	01X344318	10.0 NTU Calibration Standard (125 ml)				
	TB 1000	ECTNGSTNLMP	01X265301	Tungsten Filament Lamp Module (White Light)				
	TB 1000	ECINFRDLMP	01X265302	Infra Red Lamp Module				
	TB 1000	ECTBDCUV03KT	01X265701	Pack of 3 Sample Cuvettes				
	TB 1000	ECPORTHASSY	01X265501	Pour-Through Assembly Module				
	TB 1000	ECBATT3032	01X265901	Internal Batteries (Pack of 2)				
	TB 1000	EC120ADA800	60X030110	110/120 VAC Power Adapter (50/60 Hz); 2-Flat Pin US Type, 12 VDC 800 mA				
	TB 1000	EC220ADA800	60X030109	220/230 VAC Power Adapter (50/60 Hz); 2-Round Pin Euro Type, 12 VDC 800 mA				



Swimming Pools



Water Treatment



Turbidimeter

Eutech Colorimeters & Turbidimeters Specification Tables





Warranty | Eutech Instruments provides two years of warranty against manufacturing defects for meters, and six months for electrodes.



Colorimeter Chlorine, Free & Total pH	rs	Range										
			Resolution	Accuracy								
		0 to 1.99 ppm	0.01 ppm	±0.02 ppm	\checkmark	\checkmark	\checkmark					
рН	Chlorine, Free & Iotal		0.1 ppm	±0.2 ppm	v	v	v	_	_	_	_	-
		5.9 to 8.2 pH	0.1 pH	±0.1 pH	\checkmark	\checkmark	-	-	-	-	-	\checkmark
Cyanuric Acid		5 to 90 ppm	1 ppm	±4 ppm	\checkmark	-	-	-	-	-	\checkmark	-
Chlorine Dioxide		0 to 3.79 ppm	0.01 ppm	±0.02 ppm				-		\checkmark		
Chionne Dioxide		3.8 to 11.4 ppm	0.1 ppm	±0.2 ppm	_	_	_		_	V	-	-
Bromine		0 to 4.49 ppm	0.02 ppm	±0.03 ppm					\checkmark			
bromine		4.5 to 13.5 ppm	0.2 ppm	±0.3 ppm	_	_	-	-	V	-	-	-
0		0 to 1.39 ppm	0.01 ppm	±0.02 ppm				\checkmark				
Ozone		1.4 to 4.1 ppm	0.1 ppm	±0.2 ppm	_	-	-	V	-	-	-	-
Measurement Method		Photometric										
Light Source	t Source Light emitting diode (LED)											
Wavelength		525 nm										
etector Silicon photodiode												
Absorbance Range 0 to 2.5 Abs												
Photometric Precision ±0.0015 Abs												
Calibration Points User-selectable; 1 Point per colorimetric test												
Display	4-Digit 14-segments customised liquid crystal display with annunciations											
Sample Vials	Pipe Vials Height x diameter: 51 x 25 mm (2 x 1 in)											
Sample Required		10 ml (0.33 oz)										
Operating Temperature Ra	ange	0 to 50 °C										
Sample Temperature Range		0 to 50 ℃										
Operating Humidity Range		0 to 90 % RH non-condensing at 30 ℃										
Battery Life		> 3000 Tests										
Electromagnetic Compliance (EMC)		Emitted interference - EN 61326 Immunity to interference - EN 61326										
Enclosure Rating		IP67										
Insulation Rating		Pollution degree 2										
Power Requirements	4x'AAA' Alkaline batteries											
Dimensions (LxWxH);	Meter	6.8 x 15.5 x 4.6 cm ; 200 g										
	Boxed	16.0 x 35.0 x 12.0 cm ; 1250 g										

		TB 1000W	TB 1000IR	TN 100		
Turbidimet	ers					
Principle			Nephelometric non-ratio/ISO7027 compliant			
Range			0 to 1000 NTU			
Automatic Range Select	tion	0.00 to 9 10.0 to 9 100 to 10	9.9 NTU	0.01 to 19.99 NTU 20.0 to 99.9 NTU 100 to 1000 NTU		
Resolution		0.01 NTU (0 t 0.1 NTU (10 t 1 NTU (100 t	0.01 NTU (0 to 19.99 NTU) 0.1 NTU (20.0 to 99.9 NTU) 1 NTU (100 to 1000 NTU)			
Accuracy		±2 % of	±2 % of reading ±1 digit for 0 to 500 NTU±3 % of reading ±1 digit for 501 to 1000 NTU			
Repeatability		$\leq \pm 1\%$ of reading				
Calibration		1 to 3 points	4 points			
Calibration Standards		0.02 NTU, 10.0 I	0.02 NTU, 20.0 NTU, 100 NTU, 800 NTU			
Response Time						
Sample Volume		30	10 ml			
RS232 Output			Yes			
Light Source		White light (tungsten)	Infrared	Infrared-emitting diode (850 nm wavelength)		
Operating Temperature Range		0 to 4	0 to 50 ℃			
Sample Temperature Range						
Enclosure Type & Rating	1	ABS p	ABS plastic & IP67 rated			
Power Requirements		UL, CSA approved	4x 1.5'AAA' (>1200 reading)			
Dimensions (LxWxH);	Meter	25.4 x 23.7 x 12	15.5 x 6.8 x 4.6 cm ; 200 g			
Weight	Boxed	35.6 x 31.8 x 24	l.1 cm ; 2340 g	35.6 x 16.5 x 10.9 cm ; 1250 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 Dis	splay Testers	EcoScan	Palmtops	Waterproof
Portable	Colorimeters	and Turbidimet	ers Cybe	rScan Portable
Series	CyberScan	Bench Series	CyberScar	n Touchscreen

| 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 marketing@eutechinst.com for details of your nearest distributor.





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