



# Eutech Instruments Catalogue

ELECTROCHEMISTRY FOR LAB & FIELD



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INSTRUMENTS  
*Technology Made Easy...*



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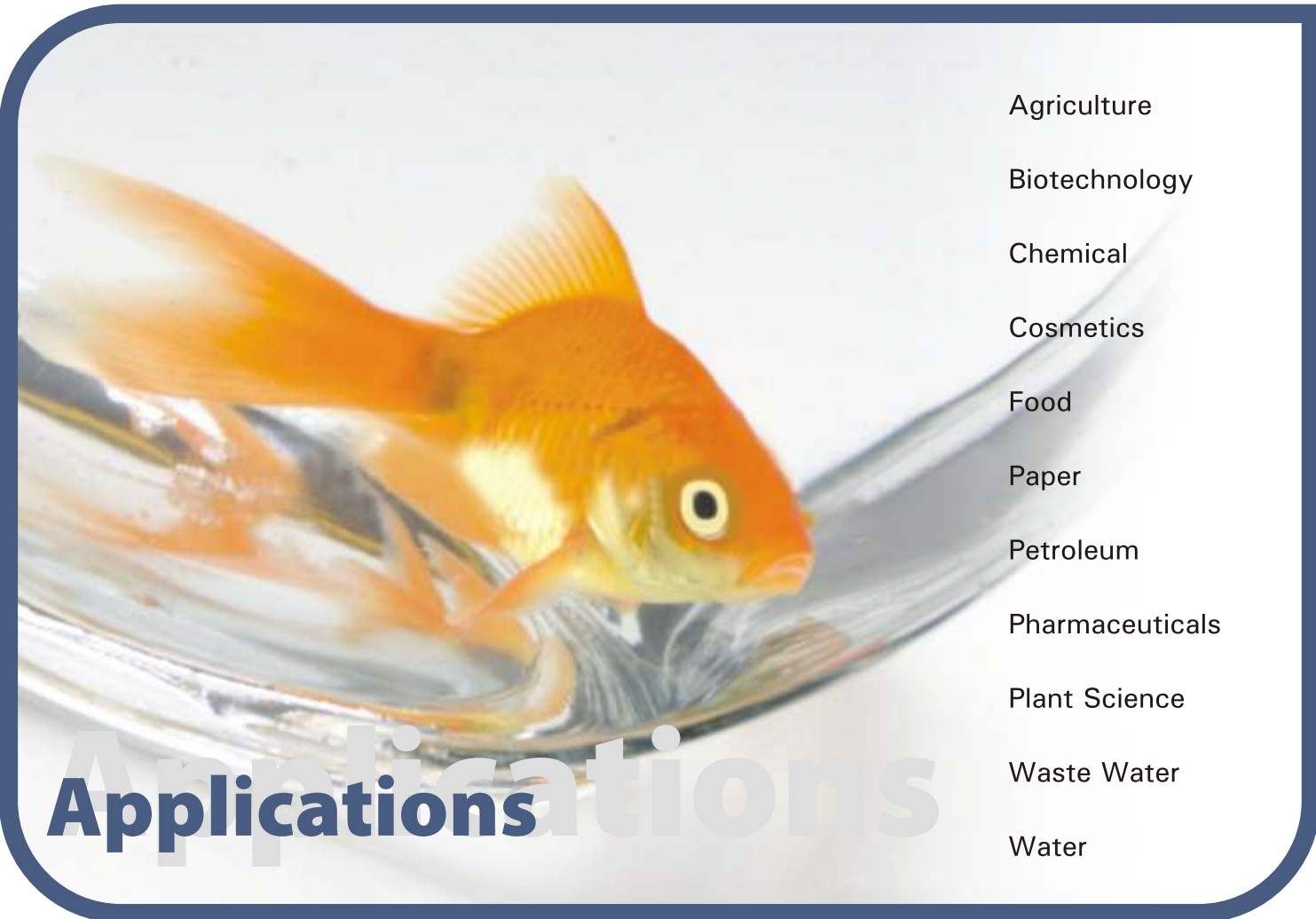
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- Agriculture
- Biotechnology
- Chemical
- Cosmetics
- Food
- Paper
- Petroleum
- Pharmaceuticals
- Plant Science
- Waste Water
- Water

**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.

**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 handheld 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.



**Service**

After Sales Support & Services provided through extensive dealer network all over the country.

To ensure optimal performance and extend life of instruments, following Services are offered:

- ⦿ Installation
- ⦿ Annual Maintenance Contracts (AMC)
- ⦿ Hardware Calibration
- ⦿ Calibration
- ⦿ Spare Parts Replacement
- ⦿ Protocol / Certificates





# Everything In..... Electrochemistry

Research Grade  
Application  
"Research beyond the boundaries"

Color Touchscreen  
Internet  
Media Player

Premium  
Benchtop

Deluxe  
Benchtop

General Laboratory  
Application  
"Simply the Smartest"

Waterproof  
Handheld

Basic Benchtop

Field Application  
"Intelligence in your hand"

Palmtop

Standard  
Portable

Testers

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## pHTestr® 10; pHTestr® 20; pHTestr® 30

pH ; pH ; pH/°C/°F

### High Accuracy

- Up to ±0.01 pH accuracy at 0.01 pH resolution
- 3-point push-button calibration with 5 buffer option sets – quick, easy calibration with no mistakes
- Automatic Temperature Compensation (ATC) – accurate readings even in varying conditions

### Long Lasting

- Double-junction sensor with chemical resistant Kynar® porous junction minimizes clogging and contamination
- Longer electrode lifespan with increased polymer gel volume
- Rugged and waterproof to IP67 standards. So light, it floats!

### User-Friendly

- Large custom dual display LCD
- Calibration settings remain, even when tester runs out of batteries
- Simultaneous temperature display in °C and °F \*

\* For pHTestr 30



## pH Spear

pH



- Open pore spear tip sensor with MTC – tough, fast, stable and minimizes clogging
- Double junction sensor prolongs electrode lifespan without contaminating samples
- Up to ±0.01 pH accuracy at 0.01 pH resolution
- Non-volatile memory holds your tester settings, even when you run out of batteries
- 3-point push-button calibration with 5 buffer option sets – quick, easy calibrations with no mistake
- Advance power management – 500 hours of operation on one set of batteries
- Waterproof to IP67 standard



pH/ORP Pocket Testers Specifications	pHTestr 2	pHTestr 1	pHTestr 30	pHTestr 20	pHTestr 10	pHTestr 10BNC	pHSpear	ORPTestr 10	ORPTestr 10BNC	
	Measuring Parameter	pH	pH	pH/°C/°F	pH			ORP (mV)		
Highlights	± 0.1 pH Accuracy	± 0.2 pH Accuracy	0.01, Temp. display	0.01 Resolution	0.1 Resolution	BNC connection	Open pore, spear tip	Platinum band sensor	BNC connection	
pH/mV	Range	0.0 to 14.0 pH		-1.00 to 15.00 pH		-1.0 to 15.0 pH		-1.00 to 15.00 pH		
	Resolution	0.1 pH		0.01 pH		0.1 pH		0.01 pH		
	Accuracy	± 0.1 pH		± 0.2 pH		± 0.1 pH		± 0.01 pH		
	Calibration Points	3 Points,		1 Point,		3 Auto				
Buffer Sets	USA: 4.01/7.00/10.01			USA: 4.01/7.00/10.01 ; NIST: 4.01/6.86/9.18			-			
Temperature	Range	-		0 to 50.0 °C 32.0 to 122.0 °F		-		0 to 50.0 °C 32.0 to 122.0 °F (MTC)		
	Resolution	-		0.1 °C/°F		-		0.1 °C/°F		
	Accuracy	-		± 0.5 °C/0.9 °F		-		-		
	Calibration Window	-		± 5 °C/9 °F from default value		-		-		
Meter Functions	ATC	Yes	No	Yes			No (MTC)		No	
	Sensor Type	Single-junction		Double-junction			BNC	Double-junction		BNC
	Auto-Off	8.5 Mins after last key pressed								
	Operating Temp.	0 to 50 °C								
	LCD Display	Single display		Custom dual-display 2.7 cm (H) x 2.1 cm (W)						
	Power	3 x 1.5 V "A76" alkaline batteries			4 x 1.5 V "A76" alkaline batteries					
Battery Life	> 250 Hours			> 500 Hours			> 250 Hours			
Dimensions (LxWxH) ; Weight	Tester	16.5 x 3.8 cm ; 90 g					24x3.8cm;103g		16.5 x 3.8 cm ; 90 g	
	Boxed	22 x 6 x 5 cm ; 170 g					25.5x13.5x7.5cm; 240g		22 x 6 x 5 cm ; 170 g	

Order Code	Description
PHTEST2	Waterproof pHTestr 2 with ATC
PHTEST1	Waterproof pHTestr 1 without ATC
PHTEST30	Waterproof pHTestr 30 with ATC & temperature display
PHTEST20	Waterproof pHTestr 20 with ATC
PHTEST10	Waterproof pHTestr 10 with ATC
PHTEST10BNC	Waterproof pHTestr 10BNC (pH electrode to be ordered separately)
PHSPEAR	Waterproof pH Spear
ORPTEST10	Waterproof ORPTestr 10
ORPTEST10BNC	Waterproof ORPTestr 10 BNC (ORP electrode to be ordered separately)
Accessories	
PHSENSOR02	Replacement sensor for pHTestr 2
PHSENSOR01	Replacement sensor for pHTestr 1
PHSENSOR03DJ	Replacement double junction sensor for pHTestr 10, 20, 30
PHSENSORBNC	BNC connector sensor for pHTestr 10BNC & ORPTestr 10BNC
PHSENSOR04	Replacement double junction spear-tip electrode for pHSpear
ORPSENSORDJ	Replacement double junction sensor for ORPTestr 10
ECFC7252101B	General purpose plastic-body single junction gel-filled pH combination electrode, 12x110mm, BNC connector, 1m cable length
ECFC7960101B	General purpose plastic-body single junction gel-filled ORP electrode, 12x110mm, BNC connector, 1m cable length
ECPOUCH01	Carrying pouch for pocket tester
ECBATT14	Alkaline button cell batteries (50 units per pack)



Large custom dual-display LCD



User-replaceable sensor



Ribbed body for better grip



pHSpear & Cheese



## CyberScan pH 600; CyberScan pH 610; CyberScan pH 620

pH/mV/°C/°F ; pH/mV/°C/°F ; pH/mV/Ion/°C/°F

### Higher Resolution & Accuracy

- High accuracies of up to ± 0.002 at resolution expandable to 3-decimal places
- Cal-due alarm prevents out-dated calibrations
- Set-points function for quality control check – meter warns when readings fall outside set limit

### Fuss-Free Data Management

- Mega-memory stores up to 500 data sets in GLP-compliant format
- RS232 through LED\*, IrDA wireless communications technology

### More User-Friendly

- Intuitive operation via soft-keys and diagnostic prompt messages for easy trouble-shooting
- 20 buffer options with custom and auto buffer recognition
- Clear indication of electrode status with electrode properties report & response indicator
- Password protection security for calibration and set-up menus

\* RS232 (LED) interface adapter available as separate accessory (order code: 01X344201)



## EcoScan™ pH 5; EcoScan™ pH 6; EcoScan™ Ion 6

pH/°C ; pH/mV/°C ; Ion/pH/mV/°C



- 3-point push-button calibration with auto-buffer recognition and choice of USA, NIST and pure water buffer option sets – quick, easy calibration with no mistakes
- Accuracy of up to ± 0.01 pH and ± 0.5 °C
- Automatic Temperature Compensation (ATC)
- Non-volatile memory holds your settings, even when meter runs out of batteries
- Hold function freezes readings for easy reference
- Auto-off conserves energy and lengthens battery life-span
- Easy troubleshooting with comprehensive self-diagnostic messages



pH/ORP Handheld Meters Specifications	CyberScan Dual-Display						EcoScan Single-Display				
	pH 620	pH 610	pH 600	pH 300	pH 110	pH 11	Ion 6	pH 6	pH 5		
Measuring Parameter	pH/mV/Ion/°C/°F		pH/mV/°C/°F		pH/mV/°C	pH/mV/°C/°F	pH/mV/°C	Ion/pH/mV/°C	pH/mV/°C	pH/°C	
Highlights	Waterproof, GLP, RS232, IrDA, Ion		Waterproof, GLP, RS232, IrDA, 0.001 pH		Waterproof, GLP, RS232, IrDA, 0.01 pH	Waterproof handheld	Expanded memory, RS232 output	Standard handheld	Economical Ion, pH, ORP measurement	Economical pH, ORP measurement	Economical pH measurement
pH	Range	-2.000 to 20.000 pH		-2.00 to 20.00 pH		-2.00 to 16.00 pH			0.00 to 14.00 pH		
	Resolution	0.1/0.01/0.001 pH		0.1/0.01 pH		0.01 pH					
	Accuracy	± 0.002 pH		± 0.01 pH		± 0.01 pH					
	Calibration Points	1 (Offset) to 6 points				Up to 5	Up to 6 (using DIN)	Up to 5	Up to 5		
Buffer Sets	USA, NIST, DIN, PWB, Custom				USA	USA, NIST, DIN, PWB	USA, NIST	USA, NIST, PWB			
Ion	Range	0.001 to 19900		-			0.01 - 0.99/ 1.0 - 199.9/ 200 - 1999 ppm		-		
	Resolution	2 or 3 digits		-			0.01, 0.1, 1 ppm		-		
	Accuracy	0.5 % Full scale (Monovalent) 1 % Full scale (Divalent)		-			± 1 % Full scale		-		
	Calibration Points	Up to 8		-			Up to 3		-		
Temperature	Range	-10 to 110 °C/14 to 230 °F			-10 to 110 °C	-10 to 110 °C/ 14 to 230 °F		0.0 to 100.0 °C			
	Resolution	0.1 °C/0.1 °F			0.1 °C	0.1 °C/0.1 °F		0.1 °C			
	Accuracy	± 0.5 °C/± 0.9 °F			± 0.5 °C	± 0.5 °C/± 0.9 °F		± 0.5 °C			
mV	Range	± 2000.0 mV		-199.9 to + 199.9 mV, ± 1999 mV			± 500 mV	± 1000 mV	-		
	Resolution	0.1 mV		0.1 mV (± 199.9) ; 1 mV (Beyond)			1 mV		-		
	Accuracy	± 0.2 mV		± 0.2 mV (± 199.9) ; ± 2 mV (Beyond)			± 2 mV		-		
Meter Features	Temperature Compensation	ATC/MTC (0 to 100 °C)									
	Memory	500 Data sets			16 Datasets	100 Datasets	50 Datasets	No			
	Auto-Off	2 to 30 Mins after last key pressed			20 Mins after last key pressed						
	Date/Time Stamp (GLP)	Yes			-						
	Average/Stability	Yes									
	Inputs	DC Phono sockets, 8 pin connector, BNC			6 Pin connector, BNC	DC Socket, BNC, 2.5 mm phono socket		BNC, 2.5 mm Phono socket			
	Output	IrDA, RS232C			-						
	Power Requirements	4x 1.5 V 'AA' Alkaline batteries or 9 V DC Adapter, 500 mA			4x 1.5 V 'AAA' Alkaline batteries	4x 1.5 V 'AAA' Alkaline batteries or 9 V DC Adapter, 200 mA		4x 1.5 V 'AAA' Alkaline batteries			
	Battery Life	> 500 Hours			> 200 Hours	> 700 Hours		> 200 Hours			
	Waterproof/Dustproof (IP67)	Yes			No						
Dimensions (LxWxH) ; Weight	Meter	18.3 x 9.5 x 5.7 cm ; 460 g		19 x 10 x 6 cm; 320 g	18 x 9 x 4 cm ; 220 g		14 x 17 x 3.5 cm ; 200 g				
	Boxed	23.5 x 16 x 15.5 cm ; 800 g		24 x 23 x 7 cm; 700 g	24 x 23 x 7 cm ; 600 g		24 x 17 x 8 cm ; 550 g				

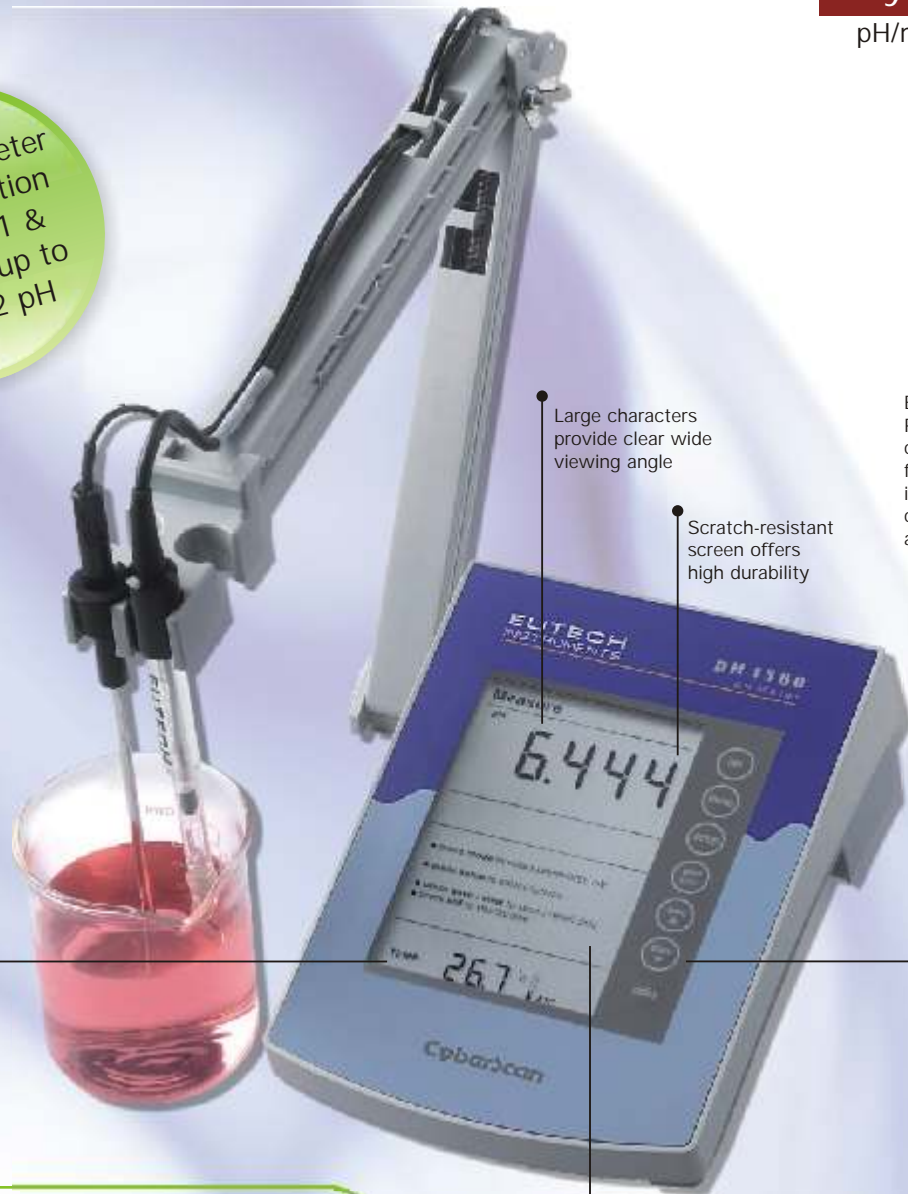
Order Code	Description
ECPHWP62042K	Waterproof CyberScan pH 620 pH/mV/Ion handheld meter with pH electrode, ATC probe, power adapter & pH carrying kit set
ECPHWP61042K	Waterproof CyberScan pH 610 pH/mV handheld meter with pH electrode, ATC probe, power adapter & pH carrying kit set
ECPHWP60042K	Waterproof CyberScan pH 600 pH/mV handheld meter with pH electrode, ATC probe, power adapter & pH carrying kit set
ECPHWP30002K	Waterproof CyberScan pH 300 pH/mV handheld meter with pH electrode, ATC, 2 electrode holders & CyberScan pH carry kit set (ECPHWPKIT)
ECPH11002K	CyberScan pH 110 pH/mV/RS232 handheld meter with pH electrode, ATC, 2 electrode holders, DAS software, RS232C cable & CyberScan pH carry kit set (ECPHWPKIT)
ECPH1102K	CyberScan pH 11 pH/mV handheld meter with pH electrode, ATC, 2 electrode holders & CyberScan pH carry kit set (ECPHWPKIT)
ECION602K	EcoScan Ion 6 Ion/pH/mV handheld meter with pH electrode, ATC & EcoScan pH carry kit set (ECECOPHKIT)
ECPH602K	EcoScan pH 6 pH/mV handheld meter with pH electrode, ATC & EcoScan pH carry kit set (ECECOPHKIT)
ECPH502K	EcoScan pH 5 pH handheld meter with pH electrode, ATC & EcoScan pH carry kit set (ECECOPHKIT)
Accessories	
ECECOPHKIT	EcoScan pH carry kit set – EcoScan plastic carry case comprises 1 x pH 4.01, pH 7.00, storage solution & 1 x deionised (rinse) water
ECPHWPKIT	CyberScan pH carry kit set – CyberScan plastic carry case comprises 1 x pH 4.01, pH 7.00, storage solution & 1 x deionised (rinse) water



### CyberScan pH 1500

pH/mV/°C/°F

Bench pH meter with resolution up to .001 & accuracy up to ±0.002 pH



GLP-compliant software that allows input of serial number, operator ID and company name

Large characters provide clear wide viewing angle

Scratch-resistant screen offers high durability

Bi-directional RS232C connector for seamless interface with computer and printer

Allows direct use of ISFET electrodes

Accepts a wide variety of BNC electrodes

Tactile keypad ensures efficient meter operation

Comprehensive electrode status diagnosis report



Bench pH1500\_DAS Software

- Measures pH, mV (ORP) Relative mV and Temperature in °C and °F
- User-selectable pH resolution and accuracy
- 0.001/0.01/0.1 pH resolution and ±0.002/0.01/0.1 pH accuracy
- Multi-point push-button calibration with auto-buffer recognition (up to 6 pH buffers)
- Accepts standard glass pH combination, half-cell or non-glass solid-state FET pH electrode directly without the need for adapters
- Supplied software allows input of serial number, operator ID and company name for GLP requirements
- Displays electrode diagnosis like slope/offset and graphical icon of electrode condition after successful calibration



### CyberScan pH Tutor

pH/°C

## Simple ,Economical And Accurate

pH TUTOR with in-built ATC pH Electrode



Easy to read LCD display provides optimum view

Microprocessor based pH meter

IP54 rated splash proof tactile keypad ensures efficient meter operation

Simple push-button calibration



Custom dual line LCD provides optimum view of both pH and Temperature values

- Accuracy up to 0.01 pH
- Up to 3 pH point push button calibration with auto-buffer recognition
- USA and NIST buffer options
- Easy electrode diagnosis with pH slope and offset display
- Automatic /manual temperature compensation With the use of optional temperature probe or built-in ATC pH electrode reliable readings are ensured under varying temperature conditions
- Easy trouble-shooting with comprehensive self-diagnostic messages





Harvesting the sophisticated features of CyberScan pH 6000, the CyberScan pH 6500 comes with dual-channel capability, so there is no need to recalibrate every time you switch from pH to ISE measurement.

### CyberScan pH 6500; pH 6000

pH/mV/Ion/°C/°F; pH/mV/°C/°F



Dual channel capability – no need for recalibration every time you switch from pH to ISE measurement

21 CFR Part 11-compliant application software available (software sold separately)

World's first Windows® CE-driven colour touchscreen bench meter

Definitive full-colour display enhances user-friendliness

Internet/ethernet-ready connection: send data via email directly from meter!

Stores up to 1000 data sets for each parameter

- Up to two channels measured and displayed simultaneously without cross channel interference
- Accepts standard BNC pH glass electrodes and DIN pH ISFET electrodes – no need for adapters
- Wide pH and mV measurement range: -2.000 to 20.000 pH and ± 2000.0 mV
- 'Direct/indirect', 'known addition/subtraction' and 'analate addition/subtraction' Ion measurement methods in ppm, %, mg/mL and mole/L
- Advanced real-time on-screen graphing function provides useful indication for Specific measurements such as titration
- Extensive setup screens enable you to customise meter to your needs, e.g. isopotential point, temperature units, Ion method, ISE electrode type, alarm limits and other functions
- Advanced USB, IrDA connectivity allows extensive host/device communication capabilities
- Secure log-in for up to ten users



Bench pH6000 Arm



Upload or download data easily into an SD card\* or USB thumbdrive\*

Real-time onscreen graphing function for specific measurements like titration



pH/ORP Bench Meters Specifications		CyberScan Premium Bench			CyberScan Deluxe Bench	CyberScan Economy Bench
		pH 6500	pH 6000	pH 1500	pH 2100	pH Tutor
Measuring Parameter		pH/mV/Ion/°C/°F		pH/mV/°C/°F		pH/mV/Ion/°C/°F
Highlights		Windows® CE dual channel colour touchscreen, (with pH FET)	Windows® CE single channel colour touchscreen, (with pH FET)	Extensive display, (with pH FET)	Back-lit dual display with Ion concentration measurement	Dual display standard bench
pH	Range	-2.000 to +20.000 pH		-1.999 to +19.999 pH		-1.000 to 14.000 pH
	Resolution	0.1/0.01/0.001 pH		0.01/0.001 pH		0.01pH
	Accuracy	± 0.1/0.01/0.002 pH		± 0.01/0.002 pH		± 0.01pH
	Calibration Points	Up to 5		Up to 6		Up to 5
	Buffer Sets	USA, NIST, Euro, Custom			USA, NIST, Custom	USA, NIST
Ion	Concentration	1 x 10 <sup>-7</sup> to 9.99 x 10 <sup>-10</sup> ppm	-	-	0.001 to 19999 ppm	-
	Resolution	2/3 or 4 Digits	-	-	0.001, 0.01, 0.1, 1 ppm	-
	Accuracy	± 0.17 % Full scale (monovalent) ± 0.34 % Full scale (divalent)	-	-	± 0.5 % Full scale (monovalent) ± 1 % Full scale (divalent)	-
	Calibration Points	Up to 5	-	-	Up to 5	-
Temperature	Range	-5.0 to 105.0 °C/23.0 to 221.0 °F				0 to 100°C
	Resolution	0.1 °C/0.1 °F				0.1 °C
	Accuracy	± 0.2 °C/± 0.3 °F		± 0.3 °C/0.5 °F		± 0.3 °C
mV	Range	± 2000.0 mV		± 1850.0 mV		-
	Resolution	0.1 mV				-
	Accuracy	± 0.2 mV				-
Meter Features	Temperature Compensation	ATC/MTC (0 to 100 °C)				
	Memory	Up to 1000 data sets per parameter		100 Data sets		-
	Date/Time Stamp (GLP)	Yes		No	Yes	No
	Input	DC Socket, DIN connector, BNC SD reader, USB, RJ45, phono		DC Socket, BNC phono, DIN connector	DC Socket, BNC, phono	BNC, phono
	Output	USB, IrDA, RS232C		RS232C	Recorder, RS232C	No
	Power Requirements	9 V DC Adapter, 3.3 A (100/240 VAC, SMPS)		12 V DC Adapter, 300 mA (100/240 VAC, SMPS)	9 V DC Adapter, 300 mA (100/240 VAC, SMPS)	9 V DC Adapter, 500 mA (220 VAC)
Dimensions (LxWxH) ; Weight	Meter	16.5 x 23.5 x 8.9 cm ; 1100 g		18 x 23 x 6 cm ; 950 g	23 x 18 x 6.3 cm ; 850 g	23 x 18 x 6 cm ; 570 g
	Boxed	49 x 28 x 16 cm ; 3700 g		40 x 26 x 9 cm ; 1600 g	40 x 26 x 9 cm ; 1400 g	40 x 26 x 9 cm ; 1200 g

Order Code	Description
ECPH650042S	CyberScan pH 6500 pH/pH FET/Ion/mV bench meter with USB, RJ 45, IrDA, SD card reader, RS232C, pH electrode, ATC probe, integral electrode holder, pH buffer sachets & SMPS power adapter
ECPH600042S	CyberScan pH 6000 pH/pH FET/mV bench meter with USB, RJ 45, IrDA, SD card reader, RS232C, pH electrode, ATC probe, integral electrode holder, pH buffer sachets & SMPS power adapter
ECPH150042S	CyberScan pH 1500 pH/mV/RS232 bench meter with DAS, RS232C cable, pH electrode, ATC probe, integral electrode holder & SMPS power adapter
ECPH210042S	CyberScan pH 2100 Ion/pH/mV RS232 bench meter with DAS, RS232C cable, pH electrode, ATC probe, integral electrode holder & SMPS power adapter
ECPHTUTORD	CyberScan pH Tutor pH meter with plastic-body "3-in-1" pH/Temp.(ATC in-built) ECFC7352901B combination electrode, 12x110mm, BNC connector, 1m cable length, indigenous electrode holder and power adapter
ECPHTUTORS	CyberScan pH Tutor pH meter with single junction pH electrode ECFC7252101B combination electrode, 12x110mm, BNC connector, 1 m cable length, indigenous electrode holder and power adapter. ATC probe to be ordered separately

## Electrode Selection Guide



### 4 Simple Steps To Choosing Your Electrode

#### Step 1: Select application

##### Application Codes & Descriptions

- A** General purpose, aqueous pH measurements. Quality control, general laboratory and aquarium water.
- B** Tris buffers, clinical, and biological media containing proteins, creams, fats and cosmetics.

#### Step 2: Select membrane glass type of your electrode

##### Membrane Glass Types

- X-1** is especially suited for low temperature, nonaqueous solutions and pH measurements under pH 12.
- X-2** is best suited for most pH measurements where minimal or no Na<sup>+</sup> is present. It is a low-resistant glass and is designed for pH ranges of 0 to 12 and temperatures of 0°C to 135°C

#### Step 3: Select electrode material

##### Glass body Combination pH Electrodes

Order Code	Glass TYPE	Application Code	pH Range	Temperature Range(OC)
ECFG73504	X-2	A, F	0 - 13	0 to 100
ECFG73905	X-2	B, C, G	0 - 13	-5 to 80
ECFG73792	X-2	H, O	0 - 13	0 to 110

#### Step 4: Select from table

Order Code	Glass TYPE	Application Code	pH Range	Temperature Range(OC)
ECFG73593	X-2	H	0 - 13	0 to 100
ECFG79701	X-2	E, O	0 - 13	-0 to 100
ECFG74519	X-3	H, T	0 - 14	5 to 110
ECFG63506	X-2	A, D	0 - 13	0 to 100

- A** General purpose, aqueous pH measurements. Quality control, general laboratory and aquarium water.
- B** Tris buffers, clinical, and biological media containing proteins, creams, fats and cosmetics.
- C** Research measurements, fruit juices, beer, milk and yogurt.
- D** High viscosity solutions such as emulsions, suspensions, paints and varnishes where frequent cleaning of the reference is necessary.
- E** Non aqueous solutions. Must be used with special reference electrolyte ECRE015.
- F** Low temperature measurements.
- G** Low ionic strength solutions, such as high purity water.
- H** High temperature measurements.
- I** Surface measurements such as paper, skin, textile, leather and agar plates.
- J** Solid or semi-solid samples such as cheese, meats, fruits, bread, or other similar sample.
- K** Rugged use; ruggedized electrode tip. Aqueous media in general.
- L** Portable pH meter; field and school use.

- M** Micro sample, such as semi-micro cuvettes and NMR tube.
- N** Test tube measurements.
- O** Reference contamination problems which require a double junction reference, such as media containing sulfides, bromides, iodides, and cyanides.
- P** Measurements in long, narrow vessels.
- Q** Soil pH measurements.
- R** Swimming pool, pH control under continuous flow conditions.
- S** Isoelectric focusing gels and other surface measurements that require a small diameter flat tip.
- T** Photographic chemical; high pH sample (12 to 14 pH).
- U** ORP measurements for general purpose.
- V** Swimming pool ORP measurement.
- W** ORP measurement for cyanide use.
- X** ORP measurement requiring a double junction reference.
- Y** Hydrofluoric acid and abrasive solution measurements.
- Z** Potentiometric measurements of chlorides and other halides.

#### Membrane Glass Types

- X-1** is especially suited for low temperature, nonaqueous solutions and pH measurements under pH 12.
- X-2** is best suited for most pH measurements where minimal or no Na<sup>+</sup> is present. It is a low-resistant glass with a very fast and stable response and is designed for pH ranges of 0 to 13 and temperatures of 0 °C to 135° C.
- X-3** is especially formulated for continuous, long-term use at high temperatures, particularly in strong alkaline solutions above pH 11. It experiences negligible Na<sup>+</sup> ion error above 13 pH. The impedance of the glass is much higher than other glasses, and a slower response will be experienced at room temperature and below. Response time increases as the temperature is elevated.

### Glass Body Combination pH Electrodes

Order Code	Glass Type	Application Code	pH Range	Temperature Range (°C)	Length x Dia. (mm)	Internal Reference Element
ECFG73504	X-2	A, F	0 - 13	0 to 100	110 x 12	Ag/AgCl Refillable
ECFG73905	X-2	B, C, G	0 - 13	-5 to 80	110 x 12	Calomel Refillable
ECFG73792	X-2	H, O	0 - 13	0 to 110	110 x 12	Ag/AgCl Double Junction Sealed
ECFG73593	X-2	H	0 - 13	0 to 100	110 x 12	Ag/AgCl Sealed
ECFG73701	X-2	E, O	0 - 13	0 to 100	110 x 12	Ag/AgCl Double Junction Refillable
ECFG74519	X-3	H, T	0 - 14	5 to 110	110 x 12	Ag/AgCl Sealed
ECFG63506	X-2	A, D	0 - 13	0 to 100	55 x 8	Ag/AgCl Refillable
ECFG43902	X-2	B, C, M	0 - 13	-5 to 80	180 x 4	Calomel Refillable
ECFG43904	X-2	B, C, M	0 - 13	-5 to 80	55 x 4	Calomel Refillable
ECFG73521	X-2	Q	0 - 13	0 to 100	110 x 12	Ag/AgCl Refillable
ECFG63511	X-2	J	0 - 13	0 to 100	25 x 8	Ag/AgCl Sealed
ECFG53912	X-2	B, J	0 - 13	-5 to 80	25 x 6	Calomel Refillable
ECFG72520	X-1	I	0 - 12	0 to 100	110 x 12	Ag/AgCl Refillable
ECFG73711	X-2	D, O	0 - 13	0 to 100	110 x 12	Ag/AgCl Double Junction Refillable
ECFG73511	X-2	D	0 - 13	0 to 100	110 x 12	Ag/AgCl Refillable
ECFG72710LI	X-2	E	0 - 13	0 to 100	110 x 12	LiCl Double Junction Refillable
EC620130	X-2	A, B, C, G, L, O, Q, R	0 - 14	0 to 80	160 x 12	Ag/AgCl Double Junction Refillable
EC620131	X-2	A, B, C, D, L, O, Q, R	0 - 14	0 to 80	130 x 12	Ag/AgCl Double Junction Sealed
EC620133	X-2	A, B, I, O, Q	2 - 14	0 to 50	25 x 6	Ag/AgCl Double Junction Sealed
EC620185	X-2	A, B, K, L, O	0 - 14	-5 to 100	102 x 10	Ag/AgCl Double Junction Refillable
EC620181	X-2	A, K	0 - 14	0 to 80	102 x 10	Ag/AgCl Refillable
EC620183	X-2	A, B, K	0 - 14	0 to 80	102 x 10	Ag/AgCl Double Junction Refillable
EC620286	X-2	A, B, G	0 - 14	-5 to 80	106 x 10	Calomel Refillable
EC620293	X-2	B, N, P	0 - 14	-5 to 80	150 x 6	Calomel Refillable
EC620095	X-2	B, N, P	0 - 14	0 to 80	254 x 3	Calomel Refillable
EC620096	X-2	B, N, P	0 - 14	0 to 80	127 x 3	Calomel Refillable
EC620297	X-2	B, N, P	0 - 14	-5 to 100	165 x 5	Ag/AgCl Refillable

### Plastic and Epoxy Combination pH Electrodes

Order Code	Glass Type	Application Code	pH Range	Temperature Range (°C)	Length x Dia. (mm)	Internal Reference Element
ECFE74526	X-3	T	0 - 14	-5 to 80	115 x 12	Ag/AgCl Sealed
ECFE72511	X-1	I	0 - 12	0 to 100	115 x 12	Ag/AgCl Sealed
ECFE53901	X-2	B, N, P	0 - 13	-5 to 80	155 x 6	Calomel Refillable
ECFC72521	X-1	A, L, R	1 - 13	0 to 80	110 x 12	Ag/AgCl Sealed
ECFC72521R	X-1	A, L, R	1 - 13	0 to 80	110 x 12	Ag/AgCl Refillable
ECFC72522	X-1	A, L, O, R	1 - 13	0 to 80	110 x 12	Ag/AgCl Double Junction Sealed
ECFC72522R	X-1	A, L, O, R	1 - 13	0 to 80	110 x 12	Ag/AgCl Double Junction Refillable
EC620132	X-2	A, B, G, L, O, Q	0 - 14	0 to 60	120 x 12	Ag/AgCl Double Junction Sealed
EC620109	X-2	B, D, G, L, Q	0 - 14	0 to 100	175 x 12	Ag/AgCl Double Junction Refillable
EC620116	X-2	A, B, D, G, L, Q	0 - 14	0 to 100	175 x 12	Ag/AgCl Double Junction Refillable
EC620300	X-2	A, B, L	0 - 14	-5 to 80	106 x 10	Calomel Refillable

### Plastic, Epoxy and Glass Combination ORP Electrodes

Order Code	Sensor Type	Application Code	Temperature Range (°C)	Length x Dia. (mm)	Internal Reference Element
ECFG79601	Platinum	U	0 to 100	110 x 12	Ag/AgCl Refillable
ECFE77689	Antimony	Y	0 to 80	110 x 12	Ag/AgCl Sealed
ECFG78610	Platinum	U, X	0 to 100	110 x 12	Ag/AgCl Double Junction Sealed
ECFC79601	Platinum Pin	U, V	0 to 80	110 x 12	Ag/AgCl Sealed
ECFC79601R	Platinum Pin	U, V	0 to 80	110 x 12	Ag/AgCl Refillable
ECFC79602	Platinum Pin	U, V, X	0 to 80	110 x 12	Ag/AgCl Double Junction Sealed
ECFE79602R	Platinum Pin	U, V, X	0 to 80	110 x 12	Ag/AgCl Double Junction Refillable

All electrodes are supplied with standard cable length of 1m and with BNC connectors. Refer to our price list for electrodes with longer cable length.



### Ion Selective Electrodes (ISE)

Eutech offers a large selection of Ion Selective Electrodes (ISE) to suit a wide variety of applications. Each electrode has a typical response time of 20 to 30 seconds which varies with solution concentration. Gas sensing electrodes also include replacement membranes. Eutech offers three electrode types: Membrane/Solid State, Gas Sensing, or Glass Bulb.

Choose from single junction or double junction electrodes. Single junction electrodes are ideal for clean water applications. Use double junction electrodes for testing dirty water and solutions with heavy metals or organics. All electrodes are refillable and include 15 ml of electrolyte, filling pipette and instructions. Solid state electrodes also include polishing strips.



### ISE General Application Guide

ISE Applications	Concentration Range	Temperature / pH Range	Interferences	Electrode	Standard 0.1M	Standard 100 ppm	Standard 1000 ppm	Ion Strength Adjuster
Ammonia NH <sub>3</sub> - High Purity Power Station Water, Fish Tanks, Sea Water, Waste Water, Plating Baths, Air/Stack Gases and Biological Samples Type: Gas Sensing	(17,000 to 0.001 ppm) 1.0 to 5 x 10 <sup>-6</sup> M	0 to 50 °C / Above pH 11	Volatiles Amines	ECNH30101B	ECSCSAA1BT	ECSCSAA2BT	ECSCSAA3BT	ECISAAA1BT
Ammonium NH <sub>4</sub> <sup>+</sup> - Boiler Feed Water, Natural Water and Fertilizers Type: Polymer Membrane	(18,000 to 0.01 ppm) 1.0 to 5 x 10 <sup>-6</sup> M	0 to 50 °C / pH 4 to pH 10	K <sup>+</sup>	ECNH40301B	ECSCSAM1BT	ECSCSAM2BT	ECSCSAM3BT	ECISAAM1BT
Bromide Br <sup>-</sup> - Water, Wine, Soil, Plant Tissue, Blood and Clinical Analysis Type: Solid State	(79,000 to 0.4 ppm) 1.0 to 5 x 10 <sup>-6</sup> M	0 to 50 °C / pH 2 to pH 14	S <sup>2-</sup> , I <sup>-</sup> , CN <sup>-</sup> , High Cl and NH <sub>3</sub> Levels	ECBRO0301B	ECSCSBR1BT	ECSCSBR2BT	-	ECISABR1BT
Cadmium Cd <sup>2+</sup> - Plating Baths Type: Solid State	(11,200 to 0.01 ppm) 0.1 to 1 x 10 <sup>-7</sup> M	0 to 80 °C / pH 2 to pH 12	Ag <sup>+</sup> , Hg <sup>2+</sup> , Cu <sup>2+</sup> , High Pb <sup>2+</sup> and Fe <sup>2+</sup> Levels	ECCD0301B	ECSCSCD1BT	ECSCSCD2BT	-	ECISACD1BT
Calcium Ca <sup>2+</sup> - Water Softening Systems, Boiler Feed Water, Drinking/Mineral Water, Clinical Analysis and Food Applications Type: Polymer Membrane	(40,000 to 0.2 ppm) 1.0 to 5 x 10 <sup>-6</sup> M	0 to 50 °C / pH 3 to pH 10	Pb <sup>2+</sup> , Hg <sup>2+</sup> , Cu <sup>2+</sup> , Ni <sup>2+</sup> , Fe <sup>2+</sup> , Mg <sup>2+</sup> , Zn <sup>2+</sup> , Ba <sup>2+</sup> , K <sup>+</sup> , K <sup>+</sup> , Na <sup>+</sup>	ECCAL0201B	ECSCSCA1BT	ECSCSCA2BT	ECSCSCA3BT	ECISACA1BT
Carbon Dioxide CO <sub>2</sub> and Carbonate CO <sub>3</sub> <sup>2-</sup> - Soft Drinks/Carbonated Beverages, Wine, Beer, Fermentation Processes, Bacterial Cultures Type: Gas Sensing	(440 to 0.4 ppm) 1 x 10 <sup>-2</sup> to 1 x 10 <sup>-4</sup> M	0 to 50 °C / pH 4.8 to pH 5.2	Volatiles Weak Acids	ECCO20101B	ECSCSCO1BT	ECSCSCO2BT	ECSCSCO3BT	ECISACO1BT
Chloride Cl <sup>-</sup> - River/Tap Water, Plant Tissue, Soils, Boiler Feed Water, Clinical Analysis, Sweat, Urine, Cement, Plating Baths and Food Samples Type: Solid State	(35,500 to 1.8 ppm) 1.0 to 5 x 10 <sup>-6</sup> M	0 to 80 °C / pH 2 to pH 12	S <sup>2-</sup> , I <sup>-</sup> , CN <sup>-</sup> , Br <sup>-</sup> , OH <sup>-</sup> , NH <sub>3</sub> , S <sub>2</sub> O <sub>3</sub> <sup>2-</sup>	ECCL00301B	ECSCSCL1BT	ECSCSCL2BT	ECSCSCL3BT	ECISACL1BT
Copper Cu <sup>2+</sup> - Plating Baths and Water Type: Solid State	(6350 to 6.4 x 10 <sup>-4</sup> ppm) 0.1 to 1 x 10 <sup>-9</sup> M	0 to 80 °C / pH 2 to pH 12	Ag <sup>+</sup> , Hg <sup>2+</sup> , High Cl <sup>-</sup> , Br <sup>-</sup> , Fe <sup>2+</sup> and Cd <sup>2+</sup> Levels	ECCU0301B	ECSCSCU1BT	ECSCSCU2BT	-	ECISACU1BT
Cyanide CN <sup>-</sup> - Plating Baths, Waste Water and Plant Tissue Type: Solid State	(260 to 0.13 ppm) 5 x 10 <sup>-4</sup> to 10 <sup>-2</sup> M	0 to 80 °C / pH 11 to pH 13	S <sup>2-</sup> , I <sup>-</sup> , Br <sup>-</sup> , Cl <sup>-</sup>	ECCN0301B	-	-	-	-
Fluoride F <sup>-</sup> - Drinking/Natural Water, Waste Water, Air/Stack Gases, Acids, Sea Water Minerals, Soils, Food, Biological Fluids, Toothpaste/Mouth Wash, Coal, Carbonated Beverages and Bone Type: Solid State	0.02 ppm to Saturated (10 <sup>-6</sup> to Saturated)	0 to 80 °C / pH 5 to pH 8	OH <sup>-</sup>	ECFO0301B	ECSCSFL1BT	ECSCSFL2BT	ECSCSFL3BT	ECISAF1BT
Iodide I <sup>-</sup> - Milk, Feeds, Plants and Pharmaceuticals Type: Solid State	(127,000 to 6 x 10 <sup>-3</sup> ppm) 5 x 10 <sup>-6</sup> to 1.0 M	0 to 80 °C / pH 0 to pH 14	S <sup>2-</sup> , CN <sup>-</sup> , Br <sup>-</sup> , Cl <sup>-</sup> , NH <sub>3</sub> , S <sub>2</sub> O <sub>3</sub> <sup>2-</sup>	ECIO0301B	ECSCSIO1BT	ECSCSIO2BT	-	ECISAIO1BT
Lead Pb <sup>2+</sup> - Plating Baths and Organic Compounds Type: Solid State	(20,7000 to 0.2 ppm) 10 <sup>-6</sup> to 10 <sup>-1</sup> M	0 to 80 °C / pH 3 to pH 8	Ag <sup>+</sup> , Hg <sup>2+</sup> , Cu <sup>2+</sup> , High Cd <sup>2+</sup> and Fe <sup>2+</sup> Levels	ECPB0301B	ECSCSPB1BT	ECSCSPB2BT	-	ECISAPB1BT
Nitrate NO <sub>3</sub> <sup>-</sup> - Surface/Drinking Water, Sewage Effluent, Soil Extracts, Fertilizers, Plant Tissue, Meat, Potatoes, Spinach, Beets, Baby Food Type: Polymer Membrane	(62,000 to 0.5 ppm) 7 x 10 <sup>-6</sup> to 1.0 M	0 to 50 °C / pH 2.5 to pH 11	ClO <sub>4</sub> <sup>-</sup> , I <sup>-</sup> , CN <sup>-</sup> , BF <sub>4</sub> <sup>-</sup>	ECNO0301B	ECSCSNT1BT	ECSCSNT2BT	ECSCSNT3BT	ECISANT1BT
Potassium K <sup>+</sup> - Waste Water, River/Tap Water, Clinical Analysis, Saliva, Serum, Fertilizers, Soils and Wines Type: Polymer Membrane	(39,000 to 0.04 ppm) 10 <sup>-6</sup> to 1.0 M	0 to 50 °C / pH 2 to pH 12	Cs <sup>+</sup> , NH <sub>4</sub> <sup>+</sup> , Tl <sup>+</sup> , H <sup>+</sup> , Ag <sup>+</sup> , Li <sup>+</sup> , Na <sup>+</sup> , Tris 1 <sup>+</sup>	ECK0301B	ECSCSKO1BT	ECSCSKO2BT	-	ECISAKO1BT
Silver/Sulfide Ag <sup>+</sup> /S <sup>2-</sup> - Sewage Effluent, Soils, Sediments, Plating Baths and Photographic Fixing Solution Type: Solid State	(107,900 to 0.01 ppm) 10 <sup>-7</sup> to 1.0 M (Ag <sup>+</sup> , S <sup>2-</sup> )	0 to 80 °C / pH 2 to pH 12	Hg <sup>2+</sup>	ECAGS0301B	ECSCSSS1BT	ECSCSSS2BT	-	ECISASS1BT
Sodium Na <sup>+</sup> - Steam Condensates in Power Plants, Clinical Analysis, Serum, Foods, Wine, Glass, Sea Water, Swimming Pools, Fish Farms and Aquariums Type: Glass Bulb	(23,000 to 0.2 ppm) 10 <sup>-6</sup> M to Saturated	0 to 80 °C / pH 5 to pH 12	H <sup>+</sup> , K <sup>+</sup> , Li <sup>+</sup> , Ag <sup>+</sup> , NH <sub>4</sub> <sup>+</sup> , Rb <sup>+</sup> , Cs <sup>+</sup> , Tl <sup>+</sup>	ECNA0201B	ECSCSLNA1BT	ECSCSLNA2BT	ECSCSLNA3BT	ECISALNA1BT

### ECTestr® 11; ECTestr® 11+ ; TDSTestr® 11; TDSTestr® 11+

Conductivity/°C/°F ; Conductivity/°C/°F ; TDS/°C/°F ; TDS/°C/°F



#### High Accuracy

- TDSTestr 11+ series measures up to 20.00 ppt
- ECTestr 11+ series measures up to 20.00 mS/cm
- Selectable TDS factor (0.40 to 1.00) for TDSTestr 11 series
- Selectable single/multi-point calibration with auto/manual options
- ± 1 % full scale accuracy

#### Long Lasting

- Unique cup-style\* sensor with Valox® casing. Industrial grade SS316 stainless steel sensor element protects against harsh sample and ensures superior chemical durability
- Reduced operating cost – use tester body again and again with user-replaceable sensor
- Rugged and waterproof to IP67 standards. So light, it floats!

\* For ECTestr 11+ & TDSTestr 11+


#### User-Friendly

- Auto-ranging capabilities options with convenient direct readout and optional range selection
- Temperature display with °C and °F options – no need for separate thermometer!
- Non-volatile memory retains tester settings, even when batteries run out



Unique cup-style design of '+' series allows you to hold small volumes of sample



Conductivity/ TDS Pocket Testers Specifications	EC Waterproof Large Dual-Display Pocket Tester		EC Waterproof Single-Display Pocket Tester		TDS Waterproof Large Dual-Display Pocket Tester		TDS Waterproof Single-Display Pocket Tester	
	ECTestr 11+	ECTestr 11	ECTest High	ECTest Low	TDSTestr 11+	TDSTestr 11	TDSTest High	TDSTest Low
								
Measuring Parameter	Conductivity/°C/°F		Conductivity		TDS/°C/°F		TDS	
Highlights	Multi-range	Dual-range	Single-range		Multi-range	Dual-range	Single-range	
Conductivity	Range	.. to 200.0µS/cm .. to 2000µS/cm .. to 20.00mS/cm	.. to 2000 µS/cm .. to 20.00 mS/cm	.. to 19.90 mS/cm#	.. to 1990 µS/cm	.. to 200.0 ppm .. to 2000 ppm .. to 10.00 ppt	.. to 2000 ppm .. to 10.00 ppt	.. to 10.00 ppt* .. to 1990 ppm
	Resolution	0.1 µS/cm 1 µS/cm 0.01 mS/cm	10 µS/cm 0.10 mS/cm	0.10 mS/cm	10 µS/cm	0.1 ppm 1 ppm 0.01 ppt	10 ppm 0.10 ppt	0.10 ppt 10 ppm
	Accuracy	± 1 % Full scale						
TDS Factor	-		-		0.40 to 1.00 (Selectable)			
Calibration Points	3 Auto, 3 Manual	2 Auto, 2 Manual	1 Point		3 Manual	2 Manual	1 Point	
Temperature	Range	0 to 50.0 °C or 32.0 to 122.0 °F		-		0 to 50.0 °C or 32.0 to 122.0 °F		-
	Resolution	0.1 °C/°F		-		0.1 °C/°F		-
	Accuracy	± 0.5 °C/0.9 °F		-		± 0.5 °C/0.9 °F		-
	Calibration Window	± 5.0 °C/9.0 °F		-		± 5.0 °C/9.0 °F		-
Meter Features	ATC	Yes(0to50°C or 32.0 to 122.0°F)		Yes		Yes(0.0to50.0°C or 32.0 to 122.0°F)		Yes
	Sensor Type	Cup	Dip	2 Pin		Cup	Dip	2 Pin
	Temperature Coefficient	2 % per °C						
	Normalization Temperature	25.0 °C						
	Non-Volatile Memory	Yes						
	Auto-Off	8.5 Mins after last key pressed						
	Operating Temperature	0.0 to 50.0 °C						
	LCD Display	Custom dual-display 2.7 cm (H) x 2.1 cm (W)		Single-display		Custom dual-display 2.7 cm (H) x 2.1 cm (W)		Single-display
	Power	4x 1.5 V 'A76' Micro alkaline batteries						
	Battery Life	> 150 Hours						
Dimensions (LxVxH); Weight	Tester	16.5 x 3.8 cm ; 90 g						
	Boxed	22 x 6 x 5 cm ; 170 g						

# 1 mS/cm = 1000 µS/cm (µS: microSiemens / mS: milliSiemens) \* 1 ppt = 1000 ppm (ppm: parts per million / ppt: parts per thousand)

Order Code	Description
ECTEST11PLS	Waterproof ECTestr 11+ multi-range with ATC & temperature display
ECTEST11	Waterproof ECTestr 11 dual-range with ATC & temperature display
ECTESTHIGH	Waterproof ECTestr High, single -range with ATC
ECTESTLOW	Waterproof ECTestr Low, single -range with ATC
TDSTEST11PLS	Waterproof TDSTestr 11+ multi-range with ATC & temperature display
TDSTEST11	Waterproof TDSTestr 11 dual-range with ATC & temperature display
TDSTESTHIGH	Waterproof TDSTestr High ,single -range with ATC
TDSTESTLOW	Waterproof TDSTestr Low, single -range with ATC
Accessories	
ECTDSENSORPLUS	Replaceable sensor for waterproof, cup type ECTestr 11+ ; TDSTestr 11+
ECTDSENSOR	Replaceable sensor for waterproof, 2-pin type ECTestr 11; TDSTestr 11;ECTestr High,Low; TDSTestr High,Low



Large custom dual-display LCD



User-replaceable sensor



Ribbed body for better grip



Cup type sensor

## CyberScan COND 600; CyberScan COND 610

Conductivity/TDS/°C/°F ; Conductivity/TDS/Resistivity/Salinity/°C/°F

### Wider Measuring Range

- Up to 5 Conductivity ranges in one meter with auto-ranging capabilities for more convenience
- ± 1 % full scale accuracy at 3-decimal resolution
- Measures pure water with pure water temperature coefficient option

### User-Friendly

- Backlit LCD screen with multi-data display – convenient for working in dark areas
- Cal-due alarm for periodic calibration updates

### Advanced Data Management

- Meter logs reading automatically within seconds of measurement
- Password protection security for calibration and set-up menus
- GLP-compliant with time and date-stamping
- RS232 through LED\*, IrDA wireless communications technology

\* RS232 (LED) interface adapter available as separate accessory (order code: 01X344201)



Sensor element made from industrial grade SS316 stainless steel type to protect against harsh samples

High/low alarm limits

Wireless data transfer

User-friendly set-up menu with intuitive soft-key operation

IP67 waterproof



## EcoScan CON 6; EcoScan TDS 6

Conductivity/°C ; TDS/°C



Protective rubber boot doubles up as meter stand

User-friendly set-up menu with intuitive soft-key operation

Conductivity electrode with built-in ATC and designed for minimal bubble entrapment



Carrying case

- Up to 5-point push-button calibration with auto-buffer recognition – quick, easy calibration with no mistakes
- ± 1 % full scale accuracy
- Selectable automatic/manual temperature compensation
- Auto-ranging for Conductivity measurements
- Adjustable TDS factor for direct derivation of values
- Non-volatile memory holds meter settings, even when batteries run out
- Easy troubleshooting with comprehensive self-diagnostic messages





## CyberScan CON 11; CyberScan CON 110

Conductivity/TDS/°C ; Conductivity/TDS/°C/°F

- Selectable automatic and manual (single/multiple calibration) calibration options
- Full-range accuracy with up to 5-point push-button calibration
- More accurate measurements with user customisation such as normalisation temperature, TDS factor and temperature coefficient
- Non-volatile memory holds up to 50 data sets even when you run out of batteries
- Hold function freezes readings for easy reference
- Auto-off conserves energy and lengthens battery life-span

### Expanded Features of CyberScan CON 110

- Convenient data transfer to a printer or PC with RS232C output
- One-glance monitoring of electrode performance with electrode data display
- Non-volatile memory holds up to 100 data sets, even when you run out of batteries



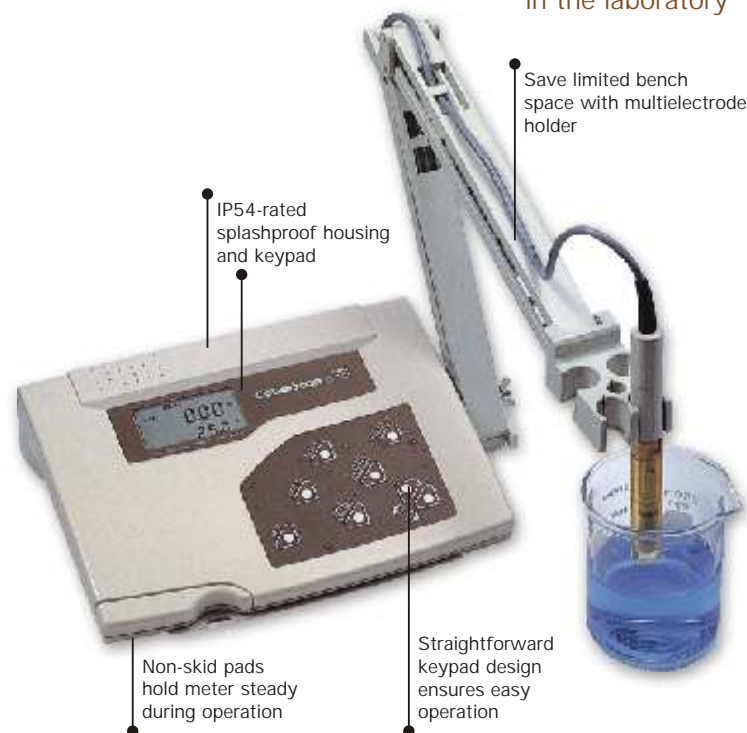
## CyberScan CON 510

Conductivity/TDS/°C/°F

"Affordable meter for accurate and consistent measurement of conductivity in the laboratory"



Quick reference slide-out instruction card



- High performance standard bench meter
- Selectable cell constant
- Custom dual display LCD
- Available with built-in electrode stand
- Up to 5-point push button calibration
- Auto-ranging across 5 ranges
- User-customisation
- Expanded memory of up to 50 data sets
- Other features include: Hold function, self diagnostic messages, 'ready' indicator, selectable ATC/MTC, quick reference slide out instruction card



Conductivity/ TDS Handheld Meters Specifications	CyberScan Dual-Display					EcoScan Single-Display		
	COND 610	COND 600	CON 400	CON 110	CON 11	CON 6	TDS 6	
Measuring Parameter	Conductivity/ TDS/Resistivity/ Salinity/°C/°F	Conductivity/ TDS/°C/°F	Conductivity/ °C/°F	Conductivity/ TDS/°C/°F	Conductivity/ TDS/°C	Conductivity/°C	TDS/°C	
Highlights	Waterproof, GLP, RS232C, IrDA, linear & pure TC	Waterproof, GLP, RS232C, IrDA, linear TC	Waterproof, GLP	Expanded memory, RS232 output	Standard handheld	Economical CON measurement	Economical TDS measurement	
Conductivity	Range	.. to 500.0 mS/cm#	.. to 200.0 mS/cm	.. to 19.99µS/cm, 19.9 to 199.9µS/cm, 199 to 1999µS/cm, 2.00 to 19.99mS/cm, 20.0 to 199.9mS/cm	-			
	Resolution	0.05 % Full scale						
	Accuracy	± 1 % Full scale + 1 LSD						
TDS	Range	.. to 500.0 ppt	.. to 200.0 ppt*	-	0 to 9.99 ppm, 10.0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt, 10.0 to 99.9 ppt	-	0 to 9.99 ppm, 10.0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt, 10.0 to 99.9 ppt	
	Resolution	0.05 % Full scale						
	Accuracy	± 1 % Full scale + 1 LSD						
	TDS Factor	0.40 to 1.00		-	0.40 to 1.0		-	0.40 to 1.0
Calibration Points	4 (1 per range) Auto, 5 (1 per range) Manual		5 (1 per range) Manual	4 (1 per range) Auto, 5 (1 per range) Manual		-	5 (1 per range) Manual	
Temperature	Range	0.0 to 80.0 °C/32 to 176 °F						
	Resolution	0.1 °C/0.1 °F						
	Accuracy	± 0.5 °C/± 0.9 °F		± 0.3 °C/± 0.5 °F		± 0.5 °C/± 0.9 °F		
	Compensation	ATC/MTC (0 to 100 °C)			ATC/MTC (0 to 80 °C)			
	Coefficient	Linear & pure	Linear	0.0 to 10.0 %		0.0 to 3.0 %		
	Normalization	15 to 30 °C			20.0 or 25.0 °C			
	Operating Range	0 to 50 °C						
Meter Features	Cell Constant	0.010 to 10.000	0.100 to 10.000	0.1, 1.0, 10.0				
	Memory	500 Data sets		50 Data sets	100 Data sets	50 Data sets	-	
	Datalogging	Yes			No			
	Automatic Endpoint	Yes			No			
	Date/Time Stamp (GLP)	Yes			No			
	Auto-Off	2 to 30 Mins after last key pressed		20 Mins after last key pressed				
	Input	DC Phono sockets, 8 Pin connector		6 Pin connector	DC Socket, 6 pin connector		BNC, 2.5 mm Phono socket	
	Output	RS232C, IrDA		No	RS232C		No	
	Power Requirements	4x 1.5 V 'AA' Batteries or 9 V DC adapter, 500 mA		6 Pin connector	4x 1.5 V 'AAA' Batteries or 9 V DC adapter, 200 mA		4x 1.5 V 'AAA' Batteries	
	Battery Life	> 200 Hours		> 100 Hours	> 200 Hours		> 100 Hours	
Waterproof/ Dustproof (IP67)	Yes			No		No		
Dimensions (LxWxH); Weight	Meter	18.3 x 9.5 x 5.7 cm ; 460 g		19x10x6cm:320g	18 x 9 x 4 cm ; 220 g		14 x 17 x 3.5 cm ; 200 g	
	Boxed	23.5 x 16 x 15.5 cm ; 800 g		24x23x7cm:700g	24 x 23 x 7 cm ; 600 g		24 x 17 x 8 cm ; 550 g	

# 1 mS/cm = 1000 µS/cm (µS: microSiemens / mS: milliSiemens) \* 1 ppt = 1000 ppm (ppm: parts per million / ppt: parts per thousand)

Order Code	Description
ECCONWP61043K	Waterproof COND 610 handheld meter with 4-cell electrode (3 m cable), power adapter & COND/TDS carrying kit set
ECCONWP60043K	Waterproof COND 600 handheld meter with 4-cell electrode (3 m cable), power adapter & COND/TDS carrying kit set
ECCONWP40003K	Waterproof CON 400 Conductivity handheld meter with electrode (ECCONSEN91W), 1 electrode holder & carrying kit set (ECCONWPKIT)
ECCON11003K	CyberScan CON 110 Conductivity/TDS/RS232 handheld meter with DAS, RS232C cable (ECCA01M09F09), electrode (ECCONSEN91W), 1 electrode holder & carrying kit set (ECCONWPKIT)
ECCON1103K	CyberScan CON 11 Conductivity/TDS handheld meter with electrode (ECCONSEN91W), 1 electrode holder & carrying kit set (ECCONWPKIT)
ECCON603K	EcoScan CON 6 Conductivity handheld meter with electrode (ECCONSEN91B) & carrying kit set (ECCOCOCONKIT)
ECTDS603K	EcoScan TDS 6 TDS handheld meter with electrode (ECCONSEN91B) & carrying kit set (ECCOCOCONKIT)
Accessories	
ECCONSEN91B	2 stainless steel rings ultem-body electrode with ATC, cell constant K = 1.0, 16 x 110 mm, BNC connector, 1 m cable (for CON 6 & TDS 6)
ECCONSEN91W	2 stainless steel rings ultem-body electrode with ATC, cell constant K = 1.0, 16 x 110 mm, 6-pin connector, 1 m cable (for CON 400/110/11)
ECCONSEN91J	2 stainless steel rings ultem-body electrode with ATC, cell constant K = 1.0, 16 x 110 mm, 8-pin connector & 1 m cable (for COND 610/600)
ECCONSEN9203J	4-cell epoxy-body electrode with ATC, 8-pin connector & 3 m cable

Conductivity/ TDS Bench Meters Specifications	CyberScan Premium Bench		CyberScan Economy Bench	
	CON 6000	CON 1500	CON 510	
Measuring Parameter	Conductivity/TDS/Resistivity/Salinity/°C/°F		Conductivity/TDS/°C/°F	
Highlights	Windows® CE, single channel color touchscreen		Economical, high performance	
Conductivity	Range	.. to 200.0 µS/cm, 200.0 µS/cm to 2.000 mS/cm, 2.000 to 20.00 mS/cm, 20.00 to 500.0 mS/cm#	.. to 19.99 µS/cm, 20.0 to 2000 µS/cm, 2.00 to 19.99 mS/cm, 20.0 to 199.9 mS/cm	
	Resolution	0.001, 0.01, 0.1 µS/cm, 0.001, 0.01, 0.1 mS/cm		
TDS	Range	.. to 200.0 ppm, 200.0 to 2000 ppm, 2.000 to 20.00 ppt, 20.00 to 200.0 ppt,* Depending on TDS factor	.. to 9.99 ppm, 10.0 to 99.9 ppm, 100 to 999 ppm, 1.00 to 9.99 ppt, 10.0 to 99.9 ppt	
	Resolution	0.001, 0.01, 0.1 ppm, 0.001, 0.01, 0.1 ppt	0.001, 0.01, 0.1, 1 ppm	
Resistivity	Range	0 to 19.99 KOhms, 20.00 to 199.9 KOhms, 200.0 KW to 1.999 MOhms, 2.000 to 100.0 MOhms	0.000 to 19.99 KOhms, 20.00 to 199.9 KOhms, 200.0 KW to 1.999 MOhms, 2.000 to 100.0 MOhms	
	Resolution	0.1, 0.01, 0.001 KOhms, 0.01, 0.001 MOhms		
Salinity (Salt)	Range	0 to 90 ppt over 4 ranges		
	Resolution	0.1, 0.01, 0.001 ppt		
Accuracy	± 0.5 % Full scale + 1 digit		± 1 % Full scale	
Temperature	Range	-5.0 to 105.0 °C/23.0 to 221.0 °F		
	Resolution	0.1 °C/0.1 °F		
	Accuracy	± 0.2 °C/± 0.3 °F	± 0.3 °C/± 0.5 °F	± 0.5 °C/± 0.9 °F
	Compensation	ATC/MTC (-5 to 100 °C)	ATC/MTC (0 to 100 °C)	ATC/MTC (0 to 80 °C)
	Coefficient (Per °C)	0.000 to 10.000 %		0.0 to 10.0 %
Normalization	15.0 to 30.0 °C			
Calibration Points	4 Auto ; 4 Manual		4 Auto ; 5 Manual	
Meter Features	Cell Constant	0.1, 1.0, 10.0		
	Memory	Up to 1000 data sets per parameter	100 Data sets	
	Automatic Endpoint	Yes	No	Yes
	Input	DC Socket, DIN connector SD Reader, USB, RJ45, phono	DC Socket, DIN connector 2 Pin connector, phono	6 Pin connector
	Output	USB, IrDA, RS232C	RS232C	No
	Power Requirements	9 V DC Adapter, 3.3 A (100/240 VAC, SMPS)	12 V DC Adapter, 300 mA (100/240 VAC, SMPS)	9 V DC Adapter, 300 mA (100/240 VAC, SMPS)
Dimensions (LxWxH); Weight	Meter	16.5 x 23.5 x 8.9 cm ; 1100 g	19.5 x 14 x 8.5 cm ; 950 g	23 x 18 x 6 cm ; 750 g
	Boxed	49 x 28 x 16 cm ; 3700 g	40 x 26 x 9 cm ; 1600 g	40 x 26 x 9 cm ; 1400 g

# 1 mS/cm = 1000 µS/cm (µS: microSiemens / mS: milliSiemens) \* 1 ppt = 1000 ppm (ppm: parts per million / ppt: parts per thousand)

Order Code	Description
ECCON600043S	CyberScan CON 6000 Conductivity/TDS/Resistivity/Salinity bench meter with USB, RJ 45, IrDA, SD card reader, RS232C meter with 4-cell electrode, integral electrode holder, Conductivity sachets & SMPS power adapter
ECCON150043S	CyberScan CON 1500 Conductivity/TDS/RS232C bench meter with DAS, RS232C cable, Conductivity 4-cell electrode (EC620165), integral electrode holder & SMPS power adapter
ECCON51043S	CyberScan CON 510 Conductivity/TDS bench meter with Conductivity electrode (ECCONSEN91W), integral electrode holder & SMPS power adapter

Accessories	Description
ECCONSEN91W	2 stainless steel rings ultem-body electrode with ATC, cell constant K = 1.0, 16x110mm, 6-pin connector, 1 m cable (for CON 510)
EC620165	Epoxy-body 4-cell Conductivity electrode with ATC, cell constant K = 1.0, DIN connector, 1 m cable

SaltTestr 11; EcoScan Salt 6

Salinity/°C; Salinity/°C

Unlike other conventional testers, the SaltTestr® 11 offers ± 1 % full scale accuracy

Protective rubber boot doubles up as stand

IP54-rated housing protects against water splashes

Splashproof keypad

More User-Friendly

- Direct temperature readout in °C and °F
- Large screen display
- Battery-level indicator
- Non-volatile memory

High Accuracy

- ± 1 % full scale accuracy
- Automatic Temperature Compensation (ATC)

More Savings

- Replaceable sensors
- Advanced power-conserving design

Measures in ppt. EcoScan Salt 6 also measures Salinity in %

- Temperature measurement with 0.1 °C resolution
- Quick and easy push-button calibration with ± 1 % full scale accuracy
- User customisation for normalisation temperature and temperature coefficient
- Electrode with built-in ATC designed for minimal air bubble entrapment during measurement
- Rugged all-in-one meter kit available
- Other features include: HOLD function, auto-off, self-diagnostics

Salinity Pocket Tester & Handheld Meter Specifications	EcoScan Palmtop Single-Display	Waterproof Pocket Tester Large Dual-Display	
	Salt 6	SaltTestr 11	
Measuring Parameter	Salinity/°C		
Highlights	Handheld meter for high accuracy and wide range Salinity measurements	Large dual-display	
Salinity (TDS)/%	Range	1.0 to 50.0 ppt/0.1 to 5.00 %	0 to 10.00 ppt*
	Resolution	0.1 ppt/0.01 %	
	Accuracy	± 1 % Full scale	
	Calibration Point	1	
Temperature	Range	-10 to 80 °C	0 to 50 °C
	Resolution	0.1 °C	
	Accuracy	± 0.5 °C	
	Compensation	ATC (0 to 50 °C)	ATC/MTC (0 to 50 °C)
	Coefficient (Per °C)	0.0 to 3.0 %	2 %
Meter Features	Normalization	20.0 °C and 25.0 °C (selectable)	25.0 °C
	Auto-Off	20 Mins after last key pressed	8.5 Mins after last key pressed
Power Requirements	Battery Life	4x 1.5 V 'AAA' Batteries	4x 1.5 V 'A76' Micro alkaline batteries
	Battery Life	> 100 Hours	> 150 Hours
Dimensions (LxWxH); Weight	Meter	14 x 17 x 3.5 cm ; 200 g	16.5 x 3.8 cm ; 90 g
	Boxed	24 x 17 x 8 cm ; 550 g	22 x 6 x 5 cm ; 170 g

\* 1 ppt = 1000 ppm (ppm: parts per million / ppt: parts per thousand)

Order Code	Description
ECSALT603K	EcoScan Salt 6 Salinity handheld meter with electrode (ECCONSEN91B) & carrying kit set
SALTTEST11	Waterproof SaltTestr 11 large display tester

Accessories	Description
ECCONSEN91B	2 stainless steel rings ultem-body electrode with ATC, cell constant K = 1.0, 12x110mm, BNC connector, 1 m cable
ECTDSSENSOR	Replacement sensor for waterproof SaltTestr 10 & SaltTestr, 2-pin type
ECNACL5PPT	5 ppt NaCl calibration solution
ECNACL25PPT	25 ppt NaCl calibration solution
ECNACL45PPT	45 ppt NaCl calibration solution



Data-transfer is easy with the incorporated IrDA wireless communications technology: No wires, no cables. Send data with the press of a button!

Wide Measurement Range

- Measures oxygen concentration up to 90.00 mg/L and saturation up to 600.0 %
- Accurate readings even in varying conditions with Temperature, Salinity and Barometric Pressure Compensation

User-Friendly

- Cal-due alarm for periodic calibration updates
- IP67 waterproof design for applications in harsh environments
- High/low alarm limits

Advanced Data-Management

- Auto-logging function that automatically records up to 500 data sets in GLP-compliant format
- RS232 through LED\*, IrDA wireless communications technology

\* RS232 (LED) interface adapter available as separate accessory (order code: 01X344201)

Large backlit screen with multi-data display and intelligent prompt messages



Intuitive soft-key operation

Rugged and IP67 waterproof



### CyberScan DO 600

Dissolved Oxygen/°C/°F

### EcoScan™ DO 6

Dissolved Oxygen/°C



Toggles between various modes easily with a press of the button

IP54-rated housing protects against dust and water splashes

- Push-button calibration with auto-buffer recognition for quick and easy calibrations with no mistakes
- Calibration can be performed at 100 % and/or 0 % solution
- Auto-compensation of Salinity and Barometric Pressure with manual input
- Galvanic probe eliminates polarisation delay and delivers quick, stable response
- Non-volatile memory holds meter readings, even when batteries run out
- Hold function freezes readings for easy reference
- Auto-off conserves energy and lengthens battery life-span
- Easy troubleshooting with comprehensive self-diagnostic messages



Dissolved Oxygen Handheld/Bench Meters Specifications	CyberScan Dual-Display		EcoScan Single-Display	CyberScan Premium Bench		
	DO 600	DO 110	DO 6	DO 6000	DO 1500	
Measuring Parameter	Dissolved Oxygen/°C/°F		Dissolved Oxygen/°C	Dissolved Oxygen/BOD/OUR/SOUR/°C/°F	Dissolved Oxygen/°C/°F	
Highlights	Waterproof, GLP, RS232C, IrDA	Standard handheld, RS232	Economical DO meter	Windows® CE, BOD, OUR and SOUR measurement, color touchscreen LCD	Self-stirring BOD probe compatible	
Dissolved Oxygen	Range	0 to 90.00 mg/L or ppm	0.00 to 19.99 mg/L or ppm	0 to 60 mg/L or ppm (0 to 1272 mbar)	0 to 60 mg/L or ppm	
	Resolution	0.01 mg/L or ppm	0.01 mg/L or ppm	0.01 mg/L or ppm (0.1 mbar)	0.01 mg/L or ppm	
	Accuracy	± 0.20 mg/L	± 1.5 % Full scale	± 0.1 + 1 LSD	± 0.5 % Full scale + 1 LSD	
% Saturation of Oxygen	Range	0 to 600.0	% 0.0 to 199.9 %	0 to 600 %		
	Resolution	0.1 %		0.1 %		
	Accuracy	± 2.0 %	± 1.5 % Full scale	± 0.1 % + 1 LSD	± 0.5 % Full scale + 1 LSD	
Temperature	Range	0.0 to 50.0 °C/32 to 122 °F		-5.0 to 46.0 °C	0.0 to 45.0 °C	
	Resolution	0.1 °C/0.1 °F		0.1 °C		
	Accuracy	± 0.3 °C/± 0.5 °F		± 0.5 °C		
Compensation	ATC/MTC (0.0 to 50.0 °C)					
Salinity Correction	Range	0.0 to 50.0 ppt		0.0 to 45.0 ppt		
	Resolution	0.1 ppt				
	Method	Automatic correction after manual input				
Barometric Pressure Correction	Range	450 to 825 mmHg or 59.9 to 109.9 kPa	500 to 1499 mmHg or 66.6 to 199.9 kPa	450 to 825 mmHg		
	Resolution	0.1 mmHg or 0.1 kPa			1 mmHg	
	Method	Automatic correction with in-built sensor	Automatic correction after manual input			
Operating Range	0 to 50 °C			5 to 45 °C		
Meter Features	Probe Type	Galvanic		Polarographic self stirring		
	Memory	500 Data sets	100 Data sets	–	Up to 1000 data sets per parameter	100 Data sets
	Datalogging	Yes	No		Yes	
	Date/Time Stamp (GLP)	Yes	–	–	Yes	
	Input	DC Phono sockets, 6 pin connector	DC Socket, 6 pin connector	BNC, 2.5 mm Phono socket	DC Socket, DIN connector, SD reader, USB, RJ45, phono socket	DIN Connector
	Output	RS232C, IrDA	RS232C	–	USB, IrDA, RS232C	Bi-directional RS232C
	Power Requirements	4x 1.5 V 'AA' Alkaline batteries or 9VDC adapter, 500mA	4x 1.5 V 'AAA' Alkaline batteries or 9VDC adapter, 200mA	4x 1.5 V 'AAA' Alkaline batteries	9 V DC Adapter, 3.3 mA (100/240 VAC, SMPS)	12 V DC Adapter, 300 mA (100/240 VAC, SMPS)
	Battery Life	> 400 Hours	> 700 Hours	> 100 Hours	–	–
	Waterproof/Dustproof (IP67)	Yes		No		
	Dimensions (LxWxH); Weight	Meter: 18.3 x 9.5 x 5.7 cm ; 460 g	18 x 9 x 4 cm ; 220 g	14 x 7 x 3.5 cm ; 200 g	16.5 x 23.5 x 8.9 cm ; 1100 g	19.5 x 14 x 8.5 cm ; 950 g
	Boxed: 23.5 x 16 x 15.5 cm ; 800 g	41 x 25 x 9 cm ; 1200 g	24 x 17 x 8 cm ; 550 g	49 x 28 x 16 cm ; 3700 g	39.5 x 26 x 9 cm ; 1250 g	

Order Code	Description
ECDOWP60042K	Waterproof CyberScan DO 600 Dissolved Oxygen handheld meter with 25 ft cable electrode, ECDOHANDY8M, DAS software, power adapter & carrying kit set
ECDOWP60041K	Waterproof CyberScan DO 600 Dissolved Oxygen handheld meter with 10 ft cable electrode, ECDOHANDYNEW, DAS software, power adapter & carrying kit set
ECDO11001K	CyberScan DO 110 Dissolved Oxygen handheld meter with 3 m cable electrode, DAS, RS232C cable, electrode, 1 assembled membrane cap housing, refilling electrolyte & neutral carrying kit set (ECWPDYKIT)
ECDO11002K	CyberScan DO 110 Dissolved Oxygen handheld meter with 8 m cable electrode, DAS, RS232C cable, electrode, 1 assembled membrane cap housing, refilling electrolyte & neutral carrying kit set (ECWPDYKIT)
ECDO602K	EcoScan DO 6 Dissolved Oxygen handheld meter with with 3 m cable electrode, 1 assembled membrane cap housing, refilling electrolyte & Dissolved Oxygen carrying kit set (EC620SSP)
ECDO600042	CyberScan DO 6000 Dissolved Oxygen/BOD/OUR/SOUR bench meter with USB, RJ 45, IrDA, SD card reader, RS232C, self-stirring Dissolved Oxygen/BOD probe (EC620SSP) & SMPS power adapter
ECDO150042	CyberScan DO 1500 Dissolved Oxygen bench meter with RS232C, self-stirring Dissolved Oxygen/BOD probe (EC620SSP) & SMPS adapter
<b>Accessories</b>	
ECDO6HANDY3M	Galvanic Dissolved Oxygen electrode with ATC, 3 m cable (for DO 6)
ECDOHANDYNEW	Galvanic Dissolved Oxygen electrode with ATC, 3 m cable (for DO 110/600)
ECDOHANDY8M	Galvanic Dissolved Oxygen electrode with ATC, 8 m cable (for DO 110/600)
EC620SSP	Dissolved Oxygen/BOD electrode with self-stirring mechanism, 1 m cable
ECWPDYKIT	CyberScan neutral carrying kit set – plastic carrying case comprises 4 empty sample bottles (60 ml)

## CyberScan TB 1000; TN 100

CyberScan TB 1000; TN 100

### CyberScan TB 1000

- Up to 3-point push-button calibration
- For optimum full-range accuracy of  $\pm 2\%$  full scale
- Auto-ranging
- For fast response and best resolution (up to 0.01 NTU) over wide measurement range
- Auto-CAL compliant to ISO and GLP standards
- Prompts at user-defined interval to ensure regularly scheduled recalibration
- GLP-compliant time/date stamp
- Self-diagnostic

### TN 100

- Full range lab-accurate results with 4 points push-button calibration
- 1200 tests on a single set of AAA batteries with advance power management design
- Lightweight, waterproof to IP67 standard & floats on water
- ISO 7027 compliant & designed to US EPA approved non-formazin standards
- Comes complete in sturdy carry kit with calibration standards, cuvettes, batteries & instruction manual



Turbidity Meters Specifications	CyberScan Deluxe Bench	Waterproof Turbidity Meter Single-Display
	TB 1000	TN 100
Measuring Parameter	Turbidity	
Highlights	Turbidity bench, GLP, RS232	Light weight, IP67 waterproof meter
Principle	Nephelometric non-ratio/ISO7027 compliant	
Range	0 to 1000 NTU	
Automatic Range Selection	0.00 to 9.99 NTU 10.0 to 99.9 NTU 100 to 1000 NTU	0.01 to 19.99 NTU 20.0 to 99.9 NTU 100 to 1000 NTU
Resolution	0.01 NTU (0 to 9.99 NTU) 0.1 NTU (10 to 99.9 NTU) 1 NTU (100 to 1000 NTU)	0.01 NTU (0 to 19.99 NTU) 0.1 NTU (20.0 to 99.9 NTU) 1 NTU (100 to 1000 NTU)
Accuracy	$\pm 2\%$ of reading	
Repeatability	< $\pm 1\%$ of reading	
Calibration	1 to 3 Points (automatic)	4 Points
Response Time	< 6 Secs for full step change	
Sample Volume	30 ml	10 ml
RS232 Output	Yes	-
Power Requirements	UL, CSA Approved 12 V DC adapter	4x 1.5 V 'AAA' (> 1200 Reading)
Light Source	White light (tungsten) or infrared	Infrared-emitting diode (850 nm wavelength)
Operating Temperature	0 to 40 °C	
Dimensions (LxWxH); Weight	Meter: 25.4 x 23.7 x 12.1 cm ; 1550 g Boxed: 35.6 x 31.8 x 24.1 cm ; 2340 g	15.5 x 6.8 x 4.6 cm ; 200 g 35.6 x 16.5 x 10.9 cm ; 1250 g

Order Code	Description
ECTBDW100020	CyberScan TB 1000 white light Turbidity bench meter (NTU) with calibration kit (ECTBDWCALKT) & 220 VAC power adapter (EC220ADA800)
ECTBDIR100020	CyberScan TB 1000 infra-red Turbidity bench meter (NTU) with calibration kit (ECTBDIRCALKT) & 220 VAC power adapter (EC220ADA800)
ECTN100IR	Waterproof TN 100 infra-red Turbidimeter (NTU) with calibration kit (ECTN100CALKT), 3 sample vials (ECTN100CUVKIT) & carrying case
Accessories	
ECTBDWCALKT	Calibration kit set for ECTBDW1000 (0.02, 10.0, 1000 NTU)
ECTBDIRCALKT	Calibration kit set for ECTBDIR1000 (0.02, 10.0, 1000 NTU)
ECTN100CALKIT	Calibration kit set for ECTN100IR (0.02, 20.0, 100, 800 NTU)

## C 401; C 301; C 201; C 105; C 104; C 103; C 102 and C 101 Colorimeters

Free & Total Chlorine/Cyanuric Acid/pH ; Free & Total Chlorine/pH ; Free & Total Chlorine ; Ozone ; Bromine ; Chlorine Dioxide ; Cyanuric Acid ; pH



- Excellent test-to-test repeatability, auto-ranging and convenience with only one-vial-one- sachet per test
- Fuss-free meter operation with one-time blanking for all parameters and ranges and no pre-calibration required for chlorine and cyanuric acid
- No detachable parts, no flip covers – high quality customised vials fit perfectly into the sample vial
- Chlorine measurements are based on US EPA-approved DPD method
- Custom formulated high quality powder reagents provide excellent accuracy, repeatability and stability
- 100 % dustproof and waterproof to IP67 standards
- Advanced power management with more than 3000 tests per set of four new 'AAA' alkaline batteries and auto-off function

Colorimeters Specifications	Colorimeters										
	Range	Resolution	Accuracy	C 401	C 301	C 201	C 105	C 104	C 103	C 102	C 101
Chlorine, Free & Total	0 to 1.99 ppm 2.0 to 6.0 ppm	0.01 ppm 0.1 ppm	$\pm 0.02$ ppm $\pm 0.2$ ppm	✓	✓	✓	-	-	-	-	-
pH	5.9 to 8.2 pH	0.1 pH	$\pm 0.1$ pH	✓	✓	-	-	-	-	-	✓
Cyanuric Acid	5 to 90 ppm	1 ppm	$\pm 4$ ppm	✓	-	-	-	-	-	✓	-
Chlorine Dioxide	0 to 3.79 ppm 3.8 to 11.4 ppm	0.01 ppm 0.1 ppm	$\pm 0.02$ ppm $\pm 0.2$ ppm	-	-	-	-	-	✓	-	-
Bromine	0 to 4.49 ppm 4.5 to 13.5 ppm	0.02 ppm 0.2 ppm	$\pm 0.03$ ppm $\pm 0.3$ ppm	-	-	-	-	✓	-	-	-
Ozone	0 to 1.39 ppm 1.4 to 4.1 ppm	0.01 ppm 0.1 ppm	$\pm 0.02$ ppm $\pm 0.2$ ppm	-	-	-	✓	-	-	-	-
Measurement Method	Photometric										
Light Source	Light emitting Diode (LED)										
Wavelength	525 nm										
Detector	Silicon photodiode										
Absorbance Range	0 to 2.5 Abs										
Photometric Precision	$\pm 0.0015$ Abs										
Calibration Points	User-selectable; 1 Point per colorimetric test										
Display	4-Digit 14-segments customised liquid crystal display with annunciators										
Sample Vials	Borosilicate glass with screw caps, fill line and indexing mark Height x diameter: 51 x 25 mm (2 x 1 in)										
Sample Required	10 ml (0.33 oz)										
Operating Temperature Range	0 to 50 °C										
Sample Temperature Range	0 to 50 °C										
Operating Humidity Range	0 to 90 % RH Non-condensing at 30 °C										
Power Supply	4x 'AAA' Alkaline batteries										
Battery Life	> 3000 Tests										
Electromagnetic Compliance (EMC)	Emitted interference - EN 61326 immunity to interference - EN 61326										
Enclosure Rating	IP67										
Insulation Rating	Pollution degree 2										
Dimensions (LxWxH); Weight	Meter	68 x 155 x 46 cm ; 200 g									
	Boxed	160 x 350 x 120 cm ; 1250 g									

Order Code	Description
ECC401	Waterproof free chlorine, total chlorine, cyanuric acid & pH colorimeter kit set with reagents (94X377001, 94X377002, 94X377003 & 94X377004) & carrying case
ECC301	Waterproof free chlorine, total chlorine & pH colorimeter kit set with reagents (94X377001, 94X377003 & 94X377004) & carrying case
ECC201	Waterproof free chlorine, total chlorine colorimeter kit set with reagents (94X377001 & 94X377002) & carrying case
ECC105	Waterproof ozone colorimeter kit set with reagents (94X377002) & carrying case
ECC104	Waterproof bromine colorimeter kit set with reagents (94X377002) & carrying case
ECC103	Waterproof chlorine dioxide colorimeter kit set with reagents (94X377001 & 94X377005) & carrying case
ECC102	Waterproof cyanuric acid colorimeter kit set with reagents (94X377003) & carrying case
ECC101	Waterproof pH colorimeter kit set with reagents (94X377004) & carrying case
Accessories	
94X377001	Free chlorine (DPD) reagent kit, pack of 100 pouches
94X377002	Total chlorine (DPD) reagent kit, pack of 100 pouches
94X377003	Cyanuric acid reagent kit, pack of 100 pouches
94X377004	pH indicator (phenol red) reagent kit, 1 bottle
94X377005	Chlorine dioxide (glycine) reagent kit, pack of 100 pouches
ECTN100CUVKIT	Sample vials – pack of 3 vials



- Selectable °C/°F readout
- Non-volatile memory backup
- Factory calibrated
- Offset adjustment
- Self-diagnostic messages
- Easy push-button calibration
- HOLD and selectable auto power-off function
- EcoScan Temp 5 uses 100K thermistor probes
- EcoScan Temp 6 uses 3-wire RTD PT100 probes
- EcoScan Temp JKT features versatility with interchangeable J, K, T probes



### EcoScan Temp JKT, Temp 6, Temp 5



Temperature Handheld Meters Specifications		EcoScan Single-Display				
		Temp JKT			Temp 6	Temp 5
Measuring Parameter		°C				
Highlights		Type J Thermocouple	Type K Thermocouple	Type T Thermocouple	3 Wire RTD pt100 temperature probe	100K Thermistor temperature probe
Temperature	Range	-200 to 1000 °C	-250 to 1372 °C	-250 to 400 °C	-200.0 to 850.0 °C	-40.0 to 125.0 °C
	Resolution	1 °C (299.9 °C < t < -99.0 °C) 0.1 °C (-99.9 °C < t < 299.9 °C)			± 0.1 °C (-99.9 to 199.9 °C) ; 1 °C (range < -99.9 °C and range > 199.9 °C)	0.1 °C
	Accuracy	± 0.25 % of reading + 1 °C (t < -99.9 °C) ± 0.2 % of reading + 0.5 °C (t > -99.9 °C)			± 0.2 °C (-99.9 to 199.9 °C) 2 °C (range < -99.9 °C and range > 199.9 °C)	± 0.2 °C
Offset Adjustment		± 10 °C			± 5 °C	
Hold Function		Yes				
Auto-Off (Selectable)		Yes				
Low Battery Indicator		Yes				
Display		Single Custom LCD				
Operating Temperature		-10 to + 50 °C			0 to 50 °C	
Input		2 Pin ANSI mini connector		3 Pin panel mount connector	¼ Inch phono plug	
Power Requirements		4x 1.5 V 'AAA' Alkaline batteries				
Battery Life		> 200 Hours				
Dimensions (LxWxH) ; Weight	Meter	14 x 7 x 3.5 cm ; 200 g				
	Boxed	24 x 17 x 8 cm ; 550 g				

Order	Type Description
ECTEMPJKT	EcoScan Temp JKT thermocouple type J, K, T temperature meter (meter only), probe to be ordered separately
ECTEMP601	EcoScan Temp 6 3-wire RTD PT100 temperature meter with probe ECTEM6TEM01R (max. 150 °C)
ECTEMP501	EcoScan Temp 5 100K thermistor temperature meter with probe ECTEM5TEM01P
Accessories	
ECTPGLPJ01M	General purpose probe (for immersion into liquids), 1 m cable, ungrounded
ECTPPENJ01M	Penetration probe (for penetrating meat, plastic and semi-soft materials), 1 m cable, ungrounded
ECTPGLPK01M	General purpose probe (for immersion into liquids), 1 m cable, ungrounded
ECTPPENK01M	Penetration probe (for penetrating meat, plastic and semi-soft materials), 1 m cable, ungrounded
ECTPSURK01M	Surface probe (for direct contact on hot surfaces), 1 m cable, ungrounded
ECTEM6TEM01R	3 wire RTD Pt100 Temperature probe, ungrounded, SS304 (max temperature 150 °C)
ECTEM5TEM01P	100K thermistor Temperature probe, ungrounded, SS304

### PCD 650; PC 650; PD 650; CD 650

pH/mV/Ion/Conductivity/TDS/Resistivity/  
Salinity/Dissolved Oxygen/°C/°F

- Wide Measurement Ranges
- Measures accuracy of up to ± 0.002 pH and resolution of up to 3-decimal points
- Accepts 2-cell and 4-cell Conductivity probe, enabling it to measure a wide Conductivity range of up to 500 mS/cm – meter even measures pure water!
- Measures 90.00 mg/L in DO concentration and 600 % in DO saturation – one of the widest Dissolved Oxygen measurement ranges offered in the handheld market today!

- User-Friendly
- Rugged and waterproof for applications in harsh environments
- Step-by-step prompts that guide users through set-up, calibration and trouble-shooting
- High/low alarm limits

- Advanced Data-Management
- Meter automatically logs up to 500 readings with time and date in GLP-compliant format
- RS232 through LED\*, IrDA wireless communications technology
- Non-volatile memory protects information and meter settings, even when batteries run out
- Password protection to prevent tampering

\* RS232 (LED) interface adapter available as separate accessory (order code: 01X344201)



### CyberScan PC 300








pH/°C/°F/Conductivity/TDS










PC 300 carrying case

- Toggles between pH/Temperature and Conductivity/Temperature with the touch of a button PC 300 also measures TDS
- Waterproof to IP67 standard – meter floats for easy retrieval!
- Multi-point push-button calibration
- Auto-buffer recognition for pH calibration
- Auto-ranging for Conductivity measurements
- Meter prompts when reading has stabilised
- Large, easy to read LCD screen



Multi-Parameter Handheld Meters Specifications		PCD 650	PC 650	PD 650	CD 650	PD 300	PC 300	PC 10
								
Measuring Parameter		pH/mV/Ion/ Conductivity/TDS/ Resistivity/Salinity/ Dissolved Oxygen/°C/°F	pH/mV/Ion/ Conductivity/TDS/ Resistivity/Salinity/ °C/°F	pH/mV/Ion/ Dissolved Oxygen/ °C/°F	Conductivity/TDS/ Resistivity/Salinity/ Dissolved Oxygen/ °C/°F	pH/Dissolved Oxygen/°C/°F	pH/°C/°F/ Conductivity/TDS	pH/°C/ Conductivity
Highlights		Waterproof, GLP, RS232, IrDA, multi-parameter display			Waterproof with back lighting	Waterproof, speciality probe compatible	Waterproof, combined multi-submersible probe	
pH	Range	-2.000 to 20.000 pH			–	-2.00 to 16.00 pH		0.00 to 14.00 pH
	Resolution	0.1/0.01/0.001 pH			–	0.01 pH		–
	Accuracy	± 0.002 pH			–	± 0.01 pH		–
	Calibration Points	1 (Offset) to 6 points			–	5		3
	Auto-Buffer Recognition	Yes			–	Yes		–
	Slope & Offset Display	Yes			–	Yes		No
Ion	Range	0.001 to 19900			–	–		–
	Resolution	2 or 3 digits			–	–		–
	Accuracy	0.5 % Full scale (monovalent) 1 % Full scale (divalent)			–	–		–
mV	Range	± 2000.0 mV			–	–		–
	Resolution	0.1 mV			–	–		–
	Accuracy	± 0.2 mV			–	–		–
Temperature	Range	-10.0 to 110.0 °C/14.0 to 230.0 °F (Meter)			-10.0 to 110.0 °C/14.0 to 230.0 °F		0.00 to 100.0 °C	
	Resolution	0.1 °C/0.1 °F			0.1 °C/0.1 °F		0.1 °C	
	Accuracy	± 0.5 °C/± 0.9 °F			0.3 °C		± 0.5 °C/± 0.9 °F	
Conductivity	Range	.. to 500.0 mS/cm	–	.. to 500.0 mS/cm	–	.. to 19.99/199.9/ 1999 µ/cm; 0 to 19.99/ 199.9 mS/cm	0 to 19.99/199.9/ 1999 µ/cm; 0 to 19.99 mS/cm	
	Resolution	0.05 % Full scale	–	0.05 % Full scale	–	0.01/0.1/1 µS/cm; 0.01/0.1 mS/cm	0.01/0.1/1 µS/cm; 0.01 mS/cm	
	Accuracy	± 1 % Full scale + 1 LSD	–	± 1 % Full scale + 1 LSD	–	± 1 % Full scale + 1 digit		
	Calibration Points	4 (1 Per range) auto, 5 (1 Per range) manual	–	4 (1 Per range) auto, 5 (1 Per range) manual	–	5	4	
	Cell Constant (K)	0.010 to 10.000	–	0.010 to 10.000	–	1.0		
	Temperature Coefficient	Linear & pure	–	Linear & pure	–	0.0 to 10.0 % (Adjustable)	2.00 %	
	Normalisation Temperature	15 to 30 °C	–	15 to 30 °C	–	15.0 to 30.0 °C (Adjustable)	25 °C	
	Auto-Ranging	Yes	–	Yes	–	Yes		
TDS	Range	.. to 500.0 ppt	–	.. to 500.0 ppt	–	0 to 9.99/99.9/999 ppm; 0 to 9.99/99.9 ppt; Max of 199.9 ppt based on factor setting	–	
	Resolution	0.05 % Full scale	–	0.05 % Full scale	–	0.01/0.1/1 ppm ; 0.01/0.1 ppt	–	
	Accuracy	± 1 % Full scale + 1 LSD	–	± 1 % Full scale + 1 LSD	–	± 1 % Full scale + 1 LSD		
	Calibration Points	5	–	5	–	5	–	
	Conversion Factor	0.40 to 1.0	–	0.40 to 1.0	–	0.40 to 1.0		
	Auto-Ranging	Yes	–	Yes	–	Yes		

Multi-Parameter Handheld Meters Specifications		PCD 650	PC 650	PD 650	CD 650	PD 300	PC 300	PC 10
								
Dissolved Oxygen	Range	0.00 to 90.00 mg/L or ppm	–	0.00 to 90.00 mg/L or ppm		0.00 to 20.00 mg/L or ppm		–
	Resolution	0.01 mg/L; 0.01 ppm	–	0.01 mg/L ; 0.01 ppm		–		–
	Accuracy	± 0.2 mg/L	–	± 0.2 mg/L		± 1.5 % Full scale		–
	Calibration Points	1	–	1		–		–
% Saturation of Oxygen	Range	0 to 600.0 %	–	0 to 600.0 %		0.0 to 200.0 %		–
	Resolution	0.1 %	–	0.1 %		0.1 %		–
	Accuracy	± 2.0 %	–	± 2.0 %		± 1.5 % Full scale		–
Salinity Correction	Range	0.0 to 50.0 ppt	–	0.0 to 50.0 ppt		0.0 to 50.0 ppt		–
	Resolution	0.1 ppt	–	0.1 ppt		0.1 ppt		–
	Method	Automatic	–	Automatic correction after manual input	Automatic	Automatic correction after manual input	–	
Barometric Pressure Correction	Range	450 to 825 mmHg or 59.9 to 109.9 kPa	–	450 to 825 mmHg or 59.9 to 109.9 kPa		500 to 1499 mmHg or 66.6 to 199.9 kPa		–
	Resolution	0.1 mmHg or 0.1 kPa	–	0.1 mmHg or 0.1 kPa		–		–
	Method	Automatic correction with built-in sensor	–	Automatic correction with built-in sensor		Automatic correction after manual input		–
Meter Features	Operating Temperature	0 to 50 °C						
	ATC	Yes						
	Hold Function	Yes						
	Ready Function	Yes						
	Auto-Off	2 to 30 Mins after last key pressed				20 Mins after last key pressed		
	Inputs	DC Phono sockets, BNC, 8 Pin connector, 6 pin connector	DC Phono sockets, BNC, 8 Pin connector,	DC Phono sockets, BNC, 6 Pin connector,	DC Phono sockets, 6 Pin connector, 8 Pin connector	BNC, 6 Pin connector		6 Pin connector
Power	4x 1.5 V 'AA' Alkaline batteries or 9 V DC Adapter, 500 mA				4x 1.5 V 'AAA' Batteries			
Battery Life	> 200 Hours		> 400 Hours		> 200 Hours		> 100 Hours	> 50 Hours
Dimensions (LxWxH); Weight	Meter	18.3 x 9.5 x 5.7 cm ; 460 g				19 x 10 x 6 cm ; 700 g		19 x 10 x 6 cm ; 320 g
	Boxed	23.5 x 16 x 15.5 cm ; 800 g				34 x 40 x 10 cm ; 2200 g		

Order Code	Description
ECPCDWP65044K	Waterproof CyberScan PCD 650 pH/mV/Ion/Conductivity/TDS/Resistivity/Salinity/Dissolved Oxygen handheld meter with pH electrode ECFC7252203B, 4 cell Conductivity probe, Dissolved Oxygen probe, DAS software, power adapter & carrying kit set (all probes have 3 m cable length)
ECPCWP65043K	Waterproof CyberScan PC 650 pH/mV/Ion/Conductivity/TDS/Resistivity/Salinity handheld meter with pH electrode ECFC7252203B, 4 cell Conductivity probe, DAS software, power adapter & carrying kit set (all probes have 3 m cable length)
ECPDWP65043K	Waterproof CyberScan PD 650 pH/mV/Ion/Dissolved Oxygen handheld meter with pH electrode ECFC7252203B, Dissolved Oxygen probe, DAS software, power adapter & pH carrying kit set (all probes have 3 m cable length)
ECCDWP65043K	Waterproof CyberScan CD 650 Conductivity/TDS/Resistivity/Salinity/Dissolved Oxygen handheld meter with 4-cell Conductivity probe, Dissolved Oxygen probe, DAS software, power adapter & carrying kit set (all probes have 3 m cable length)
ECPDWP30003K	Waterproof CyberScan PD 300 pH/Dissolved Oxygen handheld meter (backlit) with pH electrode (ECDA9350603B), Dissolved Oxygen electrode (ECDOHANDYNEW), 1 assembled membrane cap housing, refilling electrolyte & pH carrying kit set (ECPHWPKIT)
ECPCWP30003K	Waterproof CyberScan PC 300 pH/Conductivity/TDS handheld meter with pH electrode, Conductivity electrode, 2 electrode holders & carrying kit set (ECPHWPKIT)
ECPCWP1003K	Waterproof CyberScan PC 10 pH/Conductivity handheld meter with pH/Conductivity combined electrode & carrying kit set (ECPHWPKIT)
Accessories	
ECCONSEN91W	2 stainless steel rings ultem-body electrode with ATC, cell constant K = 1.0, 14x110 mm, 6-pin connector, 1 m cable
ECFC7252201B	General purpose plastic-body double junction gel-filled pH combination electrode, 12x110mm, BNC connector, 1 m cable
ECDOHANDYNEW	Galvanic Dissolved Oxygen electrode with ATC, 3 m cable
ECDA9350603B	Submersible gel-filled pH combination electrode with 15 cm ABS guard; single annular ceramic junction, 3 m cable
ECPHWPKIT	pH/Conductivity kit set – plastic carrying case comprises 1 x pH 7.00, 1413 µS, 12.88 mS KCl & 1 x deionised (rinse) water (60 ml)
ECPHWPKIT	pH carrying kit set – plastic carrying case comprises 1 x pH 4.01, pH 7.00, storage solution & 1 x deionised (rinse) water (60 ml)



PCD 6500; PC 6500; PC 6000

pH/°C/°F/mV/Ion/Conductivity/TDS/  
Resistivity/Salinity/Dissolved Oxygen/  
BOD/OUR/SOUR

Top-of-the-line, research-grade CyberScan PCD 6500 touchscreen meter measures and displays up to four channels at one time. With up to ten measurement parameters to choose from, the PCD 6500 features advanced design that prevents cross talk or other interference. Plus, comprehensive communications capabilities that allows you to send your data to any computer in the world via internet – directly from the meter!



An industry pioneer!  
Four channel display

Windows® CE-driven,  
full-color touchscreen

Real-time on-screen  
graphing capabilities

Stores up to  
1000 data sets  
per parameter

- Up to four channels measured and displayed simultaneously without cross channel interference
- Wide pH and mV measurement range: -2.000 to 20.000 pH and ± 2000.0 mV
- 'Direct/indirect', 'known addition/subtraction' and 'analate addition/subtraction' Ion measurement methods in ppm, %, mg/mL and mole/L
- DO measurement includes five-day BOD testing, OUR, and SOUR and simple DO measurements
- Single-point and multi-point standardization for Conductivity, Resistivity, TDS and Salinity measurements using 2-cell and 4-cell probes. Built-in replatinising circuit
- Secure log-in for up to ten users



Secure log-in for  
up to ten users



Hand Scandisk &  
Thumbdrive



Direct printing of data  
during measurement



Capable of auto five day  
BOD testing, OUR  
and SOUR with self-stirring  
probe that meets  
EPA compliance

Multi-Parameter Bench Meters Specifications		CyberScan Premium Bench		
		PCD 6500	PC 6500	PC 6000
Measuring Parameter		pH/°C/°F/mV/Ion/Conductivity TDS/Resistivity/Salinity/ Dissolved Oxygen/BOD/OUR/SOUR	pH/°C/°F/mV/Ion Conductivity/TDS/Resistivity/Salinity	pH/°C/°F/mV/Conductivity/ TDS/ Resistivity/Salinity
Highlights		Windows® CE, 4 channel color touchscreen	Windows® CE, 3 channel color touchscreen	Windows® CE, 2 channel color touchscreen
pH	Range	-2.000 to +20.000 pH		
	Resolution	0.1/0.01/0.001 pH		
	Accuracy	± 0.1/0.01/0.002 pH		
	Calibration Points	Up to 5		
Ion	Concentration	1 x 10 <sup>-7</sup> to 9.99 x 10 <sup>10</sup> ppm		–
	Resolution	4 Significant figures		–
	Accuracy	± 0.17 n %		–
	Calibration Points	Up to 5		–
Temperature	Range	-5.0 to 105.0 °C (DO Temp range: -5.0 to 46.0 °C)		
	Resolution	0.1 °C		
	Accuracy	± 0.2 °C		
mV	Range	± 2000.0 mV		
	Resolution	0.1 mV		
	Accuracy	± 0.2 mV		
Conductivity (Resistivity, TDS, Salinity)	Range	0 to 500 mS/cm over 4 ranges		
	Resolution	0.001/0.01/0.1 µS/cm ; 0.001/0.01/0.1 mS/cm		
	Accuracy	0.5 % Full scale + 1 LSD		
Dissolved Oxygen (BOD, OUR, SOUR)	Range	0 to 60 mg/L ; 0 to 600 % saturation (0 to 1272 mbar)	–	–
	Resolution	0.01 mg/L ; 0.1 % saturation (0.1 mbar)	–	–
	Accuracy	0.1 mg/L + 1 Digit ; 0.1 % + 1 LSD	–	–
Meter Features	Temperature Compensation	pH: ATC/MTC (-5 to 105 °C) ; Cond: ATC/MTC (-5 to 100 °C) ; DO: ATC (-5 to 46 °C)		
	Memory	Up to 1000 data sets per parameter		
	Date/Time Stamp (GLP)	Yes		
	Operating Temperature	-5 to 45 °C		
	Input	DC Socket, DIN connector, SD reader, USB, RJ45, BNC, phono socket		
	Output	USB, IrDA, RS232C		
	Display	Windows® CE color touchscreen		
	Power Requirements	9 V DC Adapter, 3.3 A (100/240 VAC, SMPS)		
Dimensions (LxWxH) ; Weight	Meter	16.5 x 23.5 x 8.9 cm ; 1100 g		
	Boxed	49 x 28 x 16 cm ; 3700 g		

Order Code	Description
ECPCD650044S	CyberScan PCD 6500 pH/pH FET/mV/Ion/Dissolved Oxygen/BOD/OUR/SOUR/Conductivity/Resistivity/TDS/Salinity bench meter with USB, RJ 45, IrDA, SD card reader, RS232C, pH electrode, Conductivity electrode, self stirring Dissolved Oxygen probe, ATC probe, integral electrode holder, pH and Conductivity sachets & SMPS power adapter
ECPC650043S	CyberScan PC 6500 pH/pH FET/mV/Ion/Conductivity/Resistivity/TDS/Salinity bench meter with USB, RJ 45, IrDA, SD card reader, RS232C, pH electrode, Conductivity electrode, ATC probe, integral electrode holder, pH and Conductivity sachets & SMPS power adapter
ECPC600043S	CyberScan PC 6000 pH/pH FET/mV/Conductivity/Resistivity/TDS/Salinity bench meter with USB, RJ 45, IrDA, SD card reader, RS232C, pH electrode, Conductivity electrode, ATC probe, integral electrode holder, pH and Conductivity sachets & SMPS power adapter

Humidity/ Temperature Handheld Datalogger Specifications		Handheld Humidity /Temperature Datalogger 60020-52
Measuring Parameter		Humidity/°C
Highlights		Measure and display relative humidity, temperature and dew point simultaneously
Humidity %	Range	0 to 100 % RH
	Resolution	0.1 % RH
	Accuracy	± 2 % from 10 to 90% RH; ± 4% outside this range
Temperature	Range	-40 to 60 °C (-40 to 140 °F)
	Resolution	0.1 °C (0.1 °F)
	Accuracy	± 0.2% of reading±0.5 °C (± 0.9 °F)
Dew Point	Range	-90 to 60 °C(-130 to140 °F)
	Response Time	5 seconds
Meter Features	Display	Multiline 4 digit custom LCD
	Output	Infra-red RS232
Power Requirements		2x 'AA' alkaline batteries
Battery Life		> 200 Hours
Dimensions (WxHxD):	Meter	84 mm x158 mm x 30 mm
	Weight	0.25 kg

## Temperature/Humidity Datalogger

Relative Humidity/°C/°F

- Retain up to 1000 data sets complete with date and time Measure and display relative humidity, temperature and dewpoint simultaneously
- Use in a variety of environments External probe allows accessibility to hard-to-reach areas
- Datalogger features minimum/maximum readings, easy data transfer via infra-red or RS232, HOLD function, and low battery indicator

## OAKTON® TempTestr® IR

°C/°F

TempTestr® IR Handheld Specifications		TempTestr® IR 35625-10
Measuring Parameter		°C/°F
Highlights		Infra-red non-contact temperature tester
Temperature	Range	-18 to 260°C (0 to 500°F)
	Resolution	0.5°C (Celsius);1°F (Fahrenheit)
	Accuracy	25 to 260°C (77 to 500°F): ± 2% or ± 2°C (± 3°F), whichever is greater -1 to 25°C (30 to 77°F): ± 3°C (± 5°F) -18 to -1°C (0 to 30°F): ± 4°C (± 7°F)
Meter Features	Repeatability	± 2% of reading, or ± 2°C (± 3°F)
	Response time	500 mSec, 95% response
	Spectral response	7 to 18 µm
	Emissivity	pre-set at 0.95
	Distance-to-spot size	6:1
Power Requirements	Ambient operating range	0 to 50°C (32 to 120°F);
	Battery Life	One 9 V Alkaline or NiCd battery 12 hours
Dimensions (WxHxD):	Meter	7.25 x 1.75 x 1.5 in (84 x 45 x 38 mm)
	Weight	0.5 lb (227 g)

## OAKTON® Min/Max Memory Thermometer

°C/°F

Min/Max Memory Thermometer Specifications		Min/Max Memory Thermometer ECLOLLITEMP
Measuring Parameter		°C/°F
Highlights		Water resistant housing. Records minimum and maximum temperature
Temperature	Range	14 to 392 °F (-10 to 200 °C)
	Resolution	0.1 ° up to 199.9° ;1° above 200 °
	Accuracy	± 1.8°F/± 1.0 °C
Display		3½ digit,0.3"H (0.8 cm H)
Dimensions (LxD)	Meter	4.3" x 0.14"(11 cm x 0.4 cm)

Order Code	Description
60020-52	Humidity/Temperature data logger with probe 60020-62
35625-10	Infra-red thermometer with laser sighting
ECLOLLITEMP	Lollipop thermometer with minimum/maximum memory

## Alpha pH 2000 pH/ORP

This high-end series of 12-DIN controllers has the powerful features needed for process control, data transmission, and long-term reliability. It offers proportional integral (PI) control that effectively minimizes overshoot and undershoot. It also features pulse frequency and pulse length proportional control programs for two control relays and on/off (with adjustable dead bands) control, specially designed to provide precise control. Suitable for a wide variety of process control applications, the alpha 2000 is housed in a NEMA 4X enclosure that is designed for wall, pole, or panel mounting. Features such as electrode wash relay, separate 4 to 20 mA measured parameter and temperature transmitter outputs and a backlit display give these controllers a competitive edge over virtually all stand-alone controllers.



## Alpha pH 200 pH/ORP

These 18-DIN controller alpha pH 200 is a microprocessor based controller. It has a 14 segment alpha numeric 4-digit LED display is bright, clear and easy to read, even at a distance. Two Single Pole Double Throw (SPDT) relays are provided for limit control operations. Peripheral devices are protected by the 'Hysteresis' function, which prevents relay chattering. Full scale 4-20mA galvanically isolated current output is available for process control.



## Alpha pH 560 pH/ORP

¼ DIN controller has IP65 weather proof housing. Symmetrical mode allows operation in environments with electrical interferences. Temperature Compensation is both automatic and manual. LCD has primary and secondary display for simultaneous pH or ORP and temperature. It allows user to select USA or pH buffer standards during calibration. It has got ability to set a time delay up to 2000 seconds, which eliminates unneeded control, prevents false alarm and makes it ideal for plant environments. Backlit display ensures easy reading even in the dark. UV light protection minimizes adverse effect of exposure to sunlight.



## Alpha pH 1000 pH/ORP

These 14-DIN controllers are full-featured, high performance products. With pulse frequency and pulse length proportional control programs for two control relays and on/off (with adjustable dead bands) control, these controllers will easily tackle most applications with precise reliable control. In addition these controllers have separate alarm function with timed delay, a HOLD function to tie in a float or flow switch or other control device to lock out control functions if chemical feed levels are low, the process is stopped, if another control function from a second controller is active, or there is a safety issue. The large LCD displays both measured parameter and temperature simultaneously.

## pH/ORP Field Monitor

The monitor is lightweight and designed to hang easily on any flat surface like a wall, glass tank, on a container, almost anywhere. Ideal for non-stop 24-hr monitoring. Bright LED display ensures reading can be seen even from a distant.



## Alpha pH 500 pH/ORP

This isolated output 4-20mA industrial transmitter is a sturdy microprocessor-based instrument that measures pH and temperature and transmits its output via the 2-wire power supply loop. Microprocessor based alpha pH 500 is both a pH /ORP transmitter, can be configured via key -pad to operate in pH, ORP (mV) modes. Symmetrical operation eliminates fluctuation in readings due to noise. 1/4 DIN size offers flexibility to mount on all or in a control panel.



### Alpha CON 2000 Conductivity

These controllers offer Eutech's most advanced operating features in a rugged 12-DIN, NEMA 4X housing. Wall-mount housing allows the controller to be mounted on walls or pipes. Also available in a panel-mount version. Seven ranges in a single controller allows the controller to be used in a wide variety of applications with the maximum range of 1000 mS/cm. User-Customization through Advanced Setup Menu offers flexibility in matching the controller's functions to suit individual's specific requirements. Accept 4- or 2-Cell Electrodes. Proportional, or Proportional Integral (PI) Control—ideal for most demanding precision process control applications Backlit Display for use in low-light conditions. Two Galvanically Isolated, Scaleable 0/4 to 20 mA Outputs for conductivity and temperature.



### Alpha CON 1000 Conductivity

These controllers offer on/off control in a 14-DIN, panel-mount housing. Ten selectable conductivity measurement ranges in one controller via its IP54 front panel. High-level accuracy of ±1% full-scale can be obtained with appropriate cells and correct temperature coefficient. User-Customization through Advanced Setup Menu offers flexibility in matching the controller's functions to suit individual's specific requirements. Two-Level Password Protection prevents unauthorized tampering with settings. Two Galvanically Isolated, Scaleable 0/4 to 20 mA Outputs. Wash Contact Relay controls electrode cleaning systems for desired duration and frequency. Adjustable Hysteresis (Dead Band) prevents rapid contact switching near set point.

### Conductivity Field Monitor

The monitor is lightweight and designed to hang easily on any flat surface like a wall, glass tank, on a container, almost anywhere. Ideal for non-stop 24-hr monitoring. Bright LED display ensures reading can be seen even from a distant.



### Alpha CON/TDS 200 Conductivity/TDS

Alpha Con 200/TDS 200 controller and transmitter has up to 10 different measurement ranges in a single unit (software selectable). Designed to 1/8 DIN size, installation is easy. 14 segment alpha numeric 4-digit LED display is bright, clear and easy to read, even at a distance. Two Single Pole Double Throw (SPDT) relays are provided for limit control operations. Peripheral devices are protected by the 'Hysteresis' function, which prevents relay chattering. Full scale 4-20mA galvanically isolated current output is available for process control.



### Alpha CON 560 Conductivity

IP65 weather proof housing Push button offset adjustment makes calibration simple Temperature Compensation is both automatic and manual LCD has primary and secondary display for simultaneous conductivity and temperature 1/4 DIN size offers flexibility to mount on wall or in a control panel. Easy to use controller functions. It has got ability to set a time delay up to 2000 seconds, which eliminates unneeded control, prevents false alarm and makes it ideal for plant environments. Backlit display ensures easy reading even in the dark. UV light protection minimizes adverse effect of exposure to sunlight.



### Alpha CON 500 Conductivity

This isolated output 4-20mA industrial transmitter is a sturdy microprocessor-based instrument that measures conductivity and temperature and transmits its output via the 2-wire power supply loop. IP65 weather proof housing. Symmetrical operation eliminates fluctuation in readings due to noise. LCD has primary and secondary display. 1/4 DIN size offers flexibility to mount on all or in a control panel. It has many user-friendly features all of which are completely accessible through the water-resistant membrane keypad. Other features include user-customization through setup menu.

### Alpha DO 1000 Dissolved Oxygen

These controllers offer on/off control in a 14-DIN, panel-mount housing. This controller and transmitter is able to accept two different probes; low-range, 0 to 10 ppm and general-range 0.5 to 40 ppm. Unit of measurement is either in ppm, mg/l or % saturation. Dissolved Oxygen measurements vary with the salinity and the atmospheric pressure. Hence, DO controller allows the input of salinity (in the mg/l or ppm modes) and pressure (mm Hg or KPa) values and automatically compensates the measured values. This controller has the versatility of being operated as a limit or proportional controller. For critical control, simply configure the controller for proportional control and select the mode of operation as Pulse Length or Pulse Frequency. The proportional band as well as the time/frequency can be configured independently. Each set point can be programmed to operate as 'Hi' or 'Lo', independently

### Alpha DO 500 Dissolved Oxygen

1/4 DIN size DO transmitter offers flexibility to mount on all or in a control panel. It has many user-friendly features all of which are completely accessible through the water-resistant membrane keypad. Other features include user-customization through setup menu. Advanced diagnostics like "out of range" and "Hold" indicators help in monitor and process control. Scalable 4/20 mA output with 3.8 mA out-of-range indicator. ATC with PT 100 (2 or 3 wire system)/MTC.

### Electrodes/Probes for pH/ORP/ Conductivity/TDS/Dissolved Oxygen Controllers/ Transmitters



Eutech controllers can be used in a wide variety of industries and applications

- Water Treatment
- Wastewater Treatment
- Plating
- Metal Finishing
- Printing
- Pulp & Paper
- Pharmaceutical
- Food & Beverage





**Buffer & Calibration Solutions**

Buffers and calibration solutions packed in durable plastic bottles – convenient for laboratory use.



Order Code	Description
<b>pH Buffer Solutions (1 liter Per Bottle)</b>	
ECBU4BTC1LIT	pH 4.01 buffer solution (Red)
ECBU7BTC1LIT	pH 7.00 buffer solution (Yellow)
ECBU10BTC1LIT	pH 10.01 buffer solution (Blue)
<b>pH Buffer Solutions (480 ml Per Bottle)</b>	
ECBU1BT	pH 1.68 buffer solution
ECBU4BT	pH 4.01 buffer solution
ECBU686BT	pH 6.86 buffer solution
ECBU7BT	pH 7.00 buffer solution
ECBU9BT	pH 9.00 buffer solution
ECBU918BT	pH 9.18 buffer solution
ECBU10BT	pH 10.01 buffer solution
ECBU12BT	pH 12.45 buffer solution
ECDPCBT	Protein cleaning solution for pH electrode
ECRE005	Storage solution for pH electrode
ECRE006	Storage solution for 620 series electrode
<b>ORP Solutions (480 ml Per Bottle)</b>	
ECORPPRE	Pre-treatment solution (475 mV)
ECORPQUIN	Quinhydrone 255 (255 mV, ± 15 mV @ 25 °C)
ECORPQUIN086	Quinhydrone 86 (86 mV)
<b>Conductivity Standard Solution (480 ml Per Bottle)</b>	
ECCON84BT	84 µS/cm KCl calibration solution
ECCON100BT	100 µS/cm KCl calibration solution
ECCON500BT	500 µS/cm KCl calibration solution
ECCON1413BT	1413 µS/cm KCl calibration solution
ECCON2764BT	2764 µS/cm KCl calibration solution
ECCON1288BT	12.88 mS/cm KCl calibration solution
ECCON1118BT	111.8 mS/cm KCl calibration solution
ECCON5000BT	5.0 mS/cm KCl calibration solution
<b>TDS 442 Standard Solutions (480 ml Per Bottle)</b>	
EC44250BT	50 ppm 442 calibration solution
EC442300BT	300 ppm 442 calibration solution
EC4421000BT	1000 ppm 442 calibration solution
EC4423000BT	3000 ppm 442 calibration solution
<b>Salinity (NaCl) Standard Solutions (480 ml Per Bottle)</b>	
ECNACL5PPT	5 ppt NaCl calibration solution
ECNACL25PPT	25 ppt NaCl calibration solution
ECNACL45PPT	45 ppt NaCl calibration solution
<b>Refilling Reference Electrolytes (480 ml Per Bottle)</b>	
ECRE001	Saturated potassium chloride with silver chloride for single junction pH electrodes
ECRE002	Saturated potassium chloride for double junction pH electrodes
ECRE003	Sodium chloride
ECRE004	Ammonium chloride
ECRE015	Lithium chloride in ethylene glycerol for organic samples

**Calibration Sachets (20 x 20 ml Per Box)**

NIST-traceable sachets for quick, accurate and convenient calibrations. Simply insert electrode into sachet pack, calibrate, rinse and discard sachet – no separate container needed!

Order Code	Description
<b>pH Buffer Sachets (20 x 20 ml Per Box)</b>	
ECBU4BS	pH 4.01 buffer sachets (NIST traceable)
ECBU7BS	pH 7.00 buffer sachets (NIST traceable)
ECBU10BS	pH 10.01 buffer sachets (NIST traceable)
ECRINWT	pH deionized water rinse sachets (NIST traceable)
<b>Conductivity/Salinity Sachets (20 x 20 ml Per Box)</b>	
ECCON10BS	10 µS/cm KCl Conductivity sachets
ECCON447BS	44.7 µS/cm KCl Conductivity sachets
ECCON1413BS	1413 µS/cm KCl Conductivity sachets
ECCON2764BS	2764 µS/cm KCl Conductivity sachets
ECCON15000BS	15000 µS/cm KCl Conductivity sachets
ECCON3000BS	3000 ppm KCL Salinity calibration sachets



**NIST Certified pH Buffer Solutions**

Oakton buffers for meters with 0.01 resolution are standardized against NIST-certified pH references within 0.01 pH at 77° F (25° C). Store buffers away from direct sunlight.

**OAKION® NIST pH Buffer Solution**

Order Code	Description
<b>Oakton NIST certified pH Buffer Solutions (500 ml)</b>	
00654-01	pH 1.68 buffer solution
00654-00	pH 4.01 buffer solution
00654-04	pH 7.00 buffer solution
00654-08	pH 10.00 buffer solution
00654-12	pH 12.45 buffer solution
<b>Oakton NIST certified pH Buffer Solutions (500 ml, pack of 12 bottles)</b>	
05942-21	pH 4.01 buffer solution
05942-41	pH 7.00 buffer solution
05942-61	pH 10.00 buffer solution

**OAKION® High-Accuracy NIST pH Buffer Solution**

Buffer solutions for meters with 0.001 resolution are accurate to either ± 0.002 pH unit (pH 4 and 7 buffers) or ± 0.005 pH unit (pH 10 buffer) when referenced to NIST-certified reference materials at 77° F (25° C).

<b>Oakton NIST certified High Accuracy pH Buffer Solutions (500 ml)</b>	
05942-26	pH 4.01 buffer solution
05942-46	pH 7.00 buffer solution
05942-66	pH 10.00 buffer solution

**Electrode Stand with Swivel Arm**

Electrode stand with swivel arm allows convenient hands-free operation. Holds up to four standard size electrodes (14 mm diameter) and one ATC probe.

- Weighted 6-inch diameter base allows you to pivot holder 360° for more flexibility
- Arm allows you to move electrode side to side or up and down while keeping electrode at a constant verticle angle



Order Code	Description
ECPHELSTDC	Electrode stand with swivel arm

**Tips for calibration solutions**

Solutions of known value allow you to adjust your testing system to measure your samples unknown pH, TDS, Conductivity, ORP or Salinity more precisely. For best accuracy:

- Perform standardizations with fresh standard solutions. Never pour used solutions back into the bottle; always discard after using
- Use standards that frame the range of the samples you are testing i.e., directly above and below the expected value of your sample
- Calibrate your system before each use or set of uses

**pH Electrode Care and Maintenance**

**Storing**

The sensor should never be stored dry. It is best to store electrodes in clean containers filled with pH storage solution, EC-RE005 or pH 7.00 buffer. Do not store an electrode in distilled or deionised water - this will cause ions to leach out of the glass bulb and render your electrode useless

**Cleaning**

- For general cleaning: Soak the pH electrode in 0.1 M HCl or 0.1 M HNO3 for 20 minutes. Rinse well in tap water before use.
- For removing stubborn deposits and bacteria: Soak the pH electrode in a 1:10 dilution of household laundry bleach for 10 minutes. Rinse thoroughly before use.
- For removal of oil and grease: Rinse the pH electrode in mild detergent or methyl alcohol. Wash in water before use.
- For removal of protein deposits: Soak the pH electrode in 1% pepsin in 0.1m HCl (EC-DPC-BT) for 5 minutes. Rinse well in water before use.

**Precision pH Simulator**

The Eutech pH-millivolt simulator is a handy, easy-to-use service tool for testing the accuracy of your pH meter. Used for trouble-shooting and fault diagnosis of meters, the simulator works with most pH/redox instruments with BNC connectors. Simulator comes with a BNC cable and a sturdy rubber boot which doubles up as a stand.

- Push button pH/mV selection
- pH accuracy of ± 0.05; mV range of ± 2
- USA/NIST pH buffer standards simulation
- 16 combination values
- 1 GΩ high input impedance test
- Large display with bright LED
- Splashproof keypad
- Protective rubber boot doubles up as stand
- Power-saving meter runs on 4 'AAA' x 1.4 V batteries



Order Code	Description
ECPHSIMULATOR	Precision hi-low impedance and multiple buffer pH simulator (with BNC-BNC cable provided)