

Conductivity/Total Dissolved Solids/Salinity



A measure of the impurities in water supplies for domestic and industrial use.

Tester:

- 1. ECTestr 11+; 11
- 2. TDSTestr® 11+; 11
- 3. SaltTestr® 11

Ghave used Eutech's

handheld meters

for environmental

monitoring for

many years. They work really well!

- 4. EcoTestr EC High; Low
- 5. EcoTestr TDS High; Low
- 6. EcoTestr Salt

Handheld:

- 1. CyberScan COND 610
- 2. CyberScan COND 600
- 3. CyberScan CON 400
- 4. CyberScan CON 110
- 5. CyberScan CON 11
- 6. COND 6+
- 7. TDS 6+
- 8. Salt 6+

Bench:

- 1. CON 2700 2. CON 700



About Conductivity, TDS & Salinity Measurement

Introduction to Conductivity, TDS and Salinity

Electrical Conductivity (EC) meters measure the capacity of ions in an aqueous solution to carry electrical current. As the ranges in aqueous solutions are usually small, the basic units of measurements are milliSiemens/cm (mS/cm) and microSiemens/cm (μ S/cm).

Solution	Conductivity
Absolute pure water	0.055 μS/cm
Power plant boiler water	1.0 μS/cm
Good city water	50 µS/cm
Ocean water	53 mS/cm
Distilled water	0.5 μS/cm
Deionised water	0.1 - 10 μS/cm
Demineralised water	0 - 80 µS/cm
Drinking water	0.5 - 1 mS/cm
Wastewater	0.9 - 9 mS/cm
Seawater	53 mS/cm
10 % NaOH	355 mS/cm
10 % H ₂ SO ₄	432 mS/cm
31 % HNO ₃	865 mS/cm

Conductivity is used widely to determine the level of impurities in water supplies for domestic consumption as well as industrial use. Industries that employ this method include the chemical, semi-conductor, power generation, hospitals, textile, iron and steel, food and beverage, mining, electroplating, pulp and paper, petroleum and marine industries.

Specific applications include chemical streams, demineraliser output, reverse osmosis, stream boilers, condensate return, waste streams, boiler blowdown, cooling towers, desalinisation, laboratory analysis, fruit peeling and salinity level detection in oceanography.

Eutech offers a wide range of conductivity meters for these various applications. Models include the ECTestr series, COND 6+, CyberScan handheld CON 11 and CON 110, CyberScan waterproof CON 400 as well as the handheld multi-parameters PC 10 and PC 300.

The total TDS is a mass estimate and is dependent on the mix of chemical species as well as the concentration while conductivity is only dependent on the concentration of chemical species. Some applications require the measurement of Total Dissolved Solids (TDS) in mg/L, parts per million (ppm) or parts per thousand (ppt). The TDS concentration can be obtained by multiplying the conductivity value with a factor which is empirically determined.

Eutech offers meters that allow the direct reading of TDS values. These include the TDSTestr[®] series, TDS 6+, CyberScan standard handheld CON 11, CON 110 and waterproof handheld CON 400. Salinity measurements are common in industries like agriculture, aquaculture, hydroponics, food, pools and spas where it is necessary to monitor the salt level constantly. The values are usually read in parts per thousand (ppt) or % (1 ppt = 1 gram per litre).

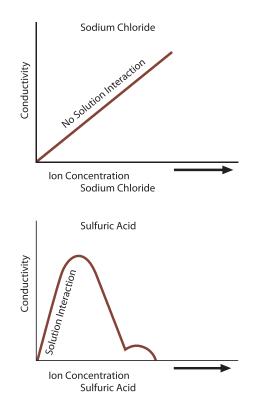
The Eutech salinity pocket testers SaltTestr[®] series are specially developed to provide direct readings in these applications.

The Principle of Conductivity Measurement

The principle by which instruments measure conductivity is simple – two plates are placed in the sample, a potential is applied across the plates (normally a sine wave voltage), and the current is measured. Conductivity (G), the inverse of Resistivity (R) is determined from the voltage and current values according to Ohm's law.

G = I/R = I (amps) / E (volts)

Since the charge on ions in solution facilitates the conductance of electrical current, the conductivity of a solution is proportional to its ion concentration. In some situations, however, conductivity may not correlate directly to concentration. The graphs below illustrate the relationship between conductivity and ion concentration for two common solutions. Notice that the graph is linear for sodium chloride solution, but not for highly concentrated sulfuric acid. lonic interactions can alter the linear relationship between conductivity and concentration in some highly concentrated solutions.

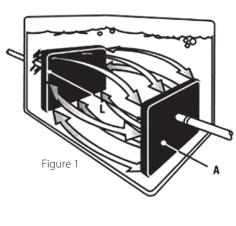


Units of Measurement

The basic unit of conductivity is the Siemens (S), formerly called the mho. Since cell geometry affects conductivity values, standardized measurements are expressed in specific conductivity units (S/cm) to compensate for variations in electrode dimensions. Specific conductivity (C) is simply the product of measured conductivity (G) and the electrode cell constant (L/A), where L is the length of the column of liquid between the electrode and A is the area of the electrodes.

Conductivity/ TDS/Salinity About Conductivity/TDS/

Salinity Measurement



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 $C = G \times (L/A)$

If the cell constant is 1 cm⁻¹, the specific conductivity is the same as the measured conductivity of the solution. Although electrode shapes vary, an electrode can always be represented by an equivalent theoretical cell.

Conductivity Temperature Compensation

Conductivity measurements are temperature dependent. The degree to which temperature affects conductivity varies from solution to solution and can be calculated using the following formula:

$$Gt = Gt_{std} \{1 + \alpha(T-T_{std})\}$$

where:

- Gt = Conductivity at measured Temperature T in °C;
- Gt_{std} = Conductivity at Reference (Normalisation) Temperature T_{std} in °C;
- α = Temperature Coefficient of solution at T_{std} in °C;
- T_{std} = Reference or Normalisation Temperature in °C

All meters have either fixed or adjustable automatic temperature compensation referenced to a standard temperature – usually 25 °C. Most meters with fixed temperature compensation use α of 2 % per °C (the approximate α of NaCl solutions at 25 °C). Meters with adjustable temperature compensation let you to adjust the α to more closely match the α of your measured solution.

Conductivity Meter Calibration and Cell Maintenance

Conductivity meters and cells should be calibrated to a standard solution before using. When selecting a standard, choose one that has the approximate conductivity of the solution to be measured.

A polarized or fouled electrode must be cleaned to renew the active surface of the cell. In most situations, hot water with a mild liquid detergent is an effective cleanser. Acetone easily cleans most organic matter, and chlorine solutions will remove algae, bacteria or molds. To prevent cell damage, abrasives or sharp objects should not be used to clean an electrode. A cotton bud works well for cleaning but care must be taken not to widen the distance of cell.

Conductivity Cells

Most conductivity meters have a 2-cell electrode available in either dip or flow-through styles. The electrode surface is usually platinum, titanium, gold-plated nickel, or graphite. The 4-cell electrode uses a reference voltage to compensate for any polarization or fouling of the electrode plates. The reference voltage ensures that measurements indicate actual conductivity independent of electrode condition, resulting in higher accuracy for measuring pure water.

The Eutech EC620165 4-cell conductivity electrode (cell constant K=1.0) with in-built ATC and DIN connector is available for use with the bench meters. ECCONSEN9203J 4-cell conductivity electrode with ATC and 3 m cable is available for COND 600, COND 610, PCD 650 and CD 650 handheld meters.

Important Features to Consider in a Conductivity Meter

Auto-Ranging

Meter automatically selects the appropriate range for measurement. There is no need to change the dial, multiply values on the display, or turn the potentiometer.

Temperature Compensation

A cell with built-in temperature sensor allows the meter to make adjustments to the conductivity or TDS readings based on changes in solution temperature.

TDS Conversion Factor

When a solution does not have a similar ionic content to natural water or salt water, then a TDS conversion factor is needed to automatically adjust the readings.

Adjustable Temperature Coefficients

The TDS of certain samples, such as alcohols and pure water, are affected by changes in temperature. An adjustable temperature coefficient allows the user to compensate for temperature changes on the solution being measured.

Adjustable Cell Constant

0.

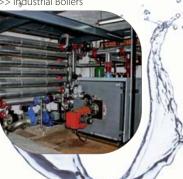
0

Adjusts the reading on the display to reflect use of a cell with a constant other than k=1.0 cm⁻¹.

Eutech's wide range of conductivity meters incorporates these features for consistent, accurate and reliable measurements.

<< Photo Development

>> Industrial Boilers



Conductivity/ TDS/Salinity Pocket Testers

Combining the ranges of three testers into one, the Eutech multi-range ECTestr 11 Series and TDSTestr 11 Series now measure a wider conductivity range from pure water to waste water. User-friendly features such as simultaneous temperature display, auto-ranging option, adjustable TDS factor and automatic temperature compensation make conductivity and TDS measurements on-the-go quick and easy!



Accurate & Reliable

- ECTestr 11 series measures up to 20.00mS; TDSTestr 11 series measures up to 20.00ppt
- Up to 3-point calibration for higher accuracy choose auto-calibration for quick, effortless calibration!
- Selectable TDS factor (0.4 to 1.00)*
- ±1 % full scale accuracy
- * For TDSTestr 11+

Long Lasting

- Sensor elements made with industrial-grade SS316 stainless steel ensures superior chemical durability. 11+ models come with unique cup-type sensors, made with Valox[®] casing to protect against harsh samples
- Reduced operating cost use tester body again and again with user-replaceable sensor
- Rugged and waterproof to IP67 standards. So light, it floats!

User-Friendly

- Auto-ranging option for convenient measurements in wide-range samples.
- Toggle between °C / °F easily with the press of a button
- Non-volatile memory retains calibration settings even when batteries run out no need to recalibrate each time you change batteries



Conductivity/TDS/Salinity

User-replaceable sensor



Unique cup-style design of '+' series allows you to hold small volumes of sample * For ECTestr 11+ & TDSTestr 11+

Applications

• Water & wastewater treatment • Boiler blow-down • Electroplating rinse tanks • Drinking water • Hydroponics • Printing Industry • Aquaculture • Aquariums & fish farms • Swimming pools • Others



Conductivity/ TDS/Salinity Pocket Testers

Eutech's latest SaltTestr 11 now comes with a new temperature display in °C and °F for easy reference during your salinity testing. Waterproof to IP67 standard, the SaltTestr 11 assures high accuracy readings even in harsh field conditions, from aquaculture settings to food production applications.



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





User-replaceable sensor

Applications

Routine Testing: For quick, accurate Salinity measurements in laboratories, field and schools.

Water Quality Testing: Ideal for salt levels in brines, pool water, aquaculture systems, aquariums (marine fish) and fish ponds (koi), food processing and healthcare industries.

Pocket Testers

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



Click-lock battery compartment - simply lift and remove cover to replace batteries. No additional tools required



Tactile switch keypad lasts longer than ordinary keypad



Applications

- Water & wastewater treatment
- Environmental monitoring Education
- Hydroponics Agriculture Aquaculture & aquariums • Pools & spas • Food & beverage
- manufacturing Cooling towers • Electroplating • Printing
- Photo-development & more!
- Up to ±1% full scale accuracy
- Single-point, auto-calibration quick, easy calibrations at the press of a button
- Manual calibration option for better accuracy with near-to-sample calibrations
 - EcoTestr TDS series features adjustable TDS factor from 0.4 to 1.0





Conductivity/ TDS/Salinity Pocket Testers Specifications

Conductivity/TDS/Salinity

		Wat	terproof Larg	je Dual-Displ	ay Pocket Te	sters			EcoTestrs				
Mc	odels	ECTestr 11+	ECTestr 11	TDSTestr 11+	TDSTestr 11	SaltTestr 11	EC High	EC Low	TDS High	TDS Low	Salt		
Conductivity/ TDS/Salinity Pocket Testers Specifications			in the stand	1000							2		
Measuring Par	rameter	Conductiv	/ity / ºC / ºF	TDS /	°C / °F	Salinity/°C/°F	Condu	uctivity	T	Salinity			
Highlights		Multi-range	Dual-range	Multi-range	Dual-range	Dual-display		Econom	ical, large, uprig				
	Range	to 200.0 μS to 2000 μS to 20.00 mS	to 2000 µS to 20.00 mS		-	_	to 19.90 mS	to 1990 µS		-			
Conductivity	Resolution	0.1 μS 1 μS 0.01 mS	10 μS 0.10 mS		-	_	0.1 mS	10 µS		_			
	Accuracy	±1 % f	ull scale		-	-	±1 % full scale (±2 % above 10 mS)	±1 % full scale	<u>.</u>	-			
	Range		_	to 100.0 ppm* to 1000 ppm* to 10.00 ppt (depending on TDS factor)	to 1000 ppm* to 10.00 ppt			-	to 10.00 ppt	to 1990 ppm	-		
TDS	Resolution	-	-	0.1 ppm 1 ppm 0.01 ppt	10 ppm 0.10 ppt	-	-	-	0.1 ppt	10 ppm	-		
	Accuracy		-	±1 % fi	ull scale	-	-		±1 % full scale (±2 % above 5 ppt)	±1 % full scale	_		
	Factor		-		to 1.00 table)	-	-	_	0.50 to 1.00 (selectable)	0.4 to 1.0 (selectable)	-		
Cal. Points		3 auto or 3 manual	2 auto or 2 manual	3 manual	2 manual		1 manual						
	Range Resolution			_		to 10.00 ppt	tc						
Salinity	Accuracy			_		0.10 ppt ±1 % full scale	±1						
	Cal. Points			-		1	5 p						
	Factor			-		Non-linear compensation	_ Non-line; compensat						
	Range		0 to 50	0.0 °C / 32.0 to 1	22.0 °F	compensation	-						
	Resolution			0.1 °C / 0.1 °F			-						
Temperature	Accuracy		±0.5	5 °C / ±0.9 °F + 1			-						
	Calibration Window Temperature		±5.0 °C	/±9.0 °F		±0.5 °C / ±0.9 °F	-						
	Compensation		~:	<u></u>			2 / 32 to 122 °F)	~					
	Sensor Type Replaceable	Cup	Dip	Cup				Dip					
	Sensor			Yes					-				
	Temperature Coefficient					2 % per	°C, fixed						
Meter	Normalization Temperature					25.0 %	C, fixed						
Features	Non-Volatile Memory						es						
	IP67					Y	es						
	Operating Temperature					0 to	50 °C						
	Auto-Off					8.5 mins after l	ast key pressed						
	LCD Display		Custom	dual-display (2.1					digit single dis	olay			
	Power Pottory Life				4 x 1.5 V	'A76' micro alka		ncluded)					
	Battery Life Tester		1	6.5 x 3.8 cm ; 90) a	> 15	i0 hrs	1	6.3 x 4.5 cm ; 90	a			
Dimensions				5.5 A 5.0 Cm, JC	9				J.J. A. I.J. CIII, JU				

• 1 mS/cm = 1000 µS/cm (µS: microSiemens / mS: miliSiemens) • 1 ppt = 1000 ppm (ppm: parts per million / ppt: parts per thousand) * Max. 200.0 ppm and 2000 ppm based on TDS factor 1.0



Conductivity/TD	S/Salinity Pocket Te	esters									
				Paran	neters		Sen	sors	Accessories		
ltem	Order Code	Part No.	Conductivity	TDS	Salinity	Temperature	Cup Type Sensor	2-Pin Type Sensor	Lanyard	Alkaline Button Cell Batteries	
ECTestr 11+	ECTEST11PLS	01X377229	•			•	•		•	•	
ECTestr 11	ECTEST11	01X377228	•			•		•	•	•	
TDSTestr 11+	TDSTEST11PLS	01X377231		•		•	•		•	•	
TDSTestr 11	TDSTEST11	01X377233		•		•		•	•	•	
SaltTestr 11	SALTTEST11	01X377232			•	•		•	•	•	
EcoTestr EC High	ECOECTESTHIGH	01X477102	•					•		•	
EcoTestr EC Low	ECOECTESTLOW	01X477101	•					•		•	
EcoTestr TDS High	ECOTDSTESTHIGH	01X477104		•				•		•	
EcoTestr TDS Low	ECOTDSTESTLOW	01X477103		•				•		•	
EcoTestr Salt	ECOSALTTEST	01X477105			•			•		•	

Replacement Sensors/Electrodes & A	ccessories		
Used With	Description	Order Code	Part No.
ECTestr 11 / TDSTestr 11 / SaltTestr 11	2-pin type replacement sensor	ECTDSSENSOR	01X229713
ECTestr 11+ / TDSTestr 11+	Cup type replacement sensor	ECTDSSENSORPLUS	01X229714
All testrs	Belt-loop soft carrying case for testr	ECPOUCH01	56X201300
All testrs	Alkaline button cell batteries (50 units per pack)	ECBATT14	01X220401
SaltTestr 11 / EcoTestr Salt	5 ppt NaCl standard solution	ECNACL5PPT	01X211230
SaltTestr 11	25 ppt NaCl standard solution	ECNACL25PPT	01X211231
SaltTestr 11	45 ppt NaCl standard solution	ECNACL45PPT	01X211232
EcoTestr EC High	2764 µS/cm KCl calibration solution, 480 ml bottle	ECCON2764BT	01X211214
EcoTestr EC High	12.88 mS/cm KCl calibration solution, 480 ml bottle	ECCON1288BT	01X211210
EcoTestr EC Low	100 µS/cm KCl calibration solution, 480 ml bottle	ECCON100BT	01X211217
EcoTestr EC Low	1413 µS/cm KCl calibration solution, 480 ml bottle	ECCON1413BT	01X211207
EcoTestr TDS High	3.00 ppt 442 calibration solution, 480 ml bottle	EC4423000BT	01X109101
EcoTestr TDS Low	300 ppm 442 calibration solution, 480 ml bottle	EC442300BT	01X109102
EcoTestr TDS Low	1000 ppm 442 calibration solution, 480 ml bottle	EC4421000BT	01X109104



page | **40**

CyberScan COND 610 ; CyberScan COND 600 Conductivity/TDS/Salinity/Resistivity/°C/°F Conductivity/TDS/°C/°F



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Conductivity/ **TDS/Salinity** CyberScan Waterproof Handheld

View readings, calibration and electrode status data all in one screen view - the CyberScan COND 600 series comes with advanced wireless communications technology for seamless data transfer from meter to PC. Meter also accepts and auto-detects 2-cell and 4-cell conductivity probes for pure water to wastewater applications.





Wireless data transfer

Complimentary Cybercomm software download data from meter to PC as text or Excel[®] spreadsheet



Velcro strap for firmer grip



Kit set comes with 4-cell conductivity electrode

Applications

Environmental: Use to test water quality, monitor health of aquatic ecosystems, survey surface and ground water drinking supplies and to meet EPA regulations.

Industrial: Ideal for checking quality of plant water intake and discharge, wastewater and water treatment, recirculating systems and industrial process systems, water conditioning plants and chemical process verification.

Aquaculture: Use to monitor water conditions in catfish and shrimp farming, game stocking ponds, ornamental fish tanks and ponds as well as other fish farming applications.

Wider Measuring Range

- Up to 5 Conductivity ranges in one meter with convenient auto-ranging capabilities
- ±1 % full scale accuracy at 3-decimal resolution
- Measures pure water with pure water temperature coefficient option (applicable to COND 610 only)

User-Friendly

- · Backlit 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
- RS232C through LED*, IrDA wireless communications technology
- * RS232C (LED) interface adapter available as separate accessory (order code: 01X344201)



CyberScan Waterproof Handheld

CyberScan CON 400 Conductivity/TDS/°C/°F



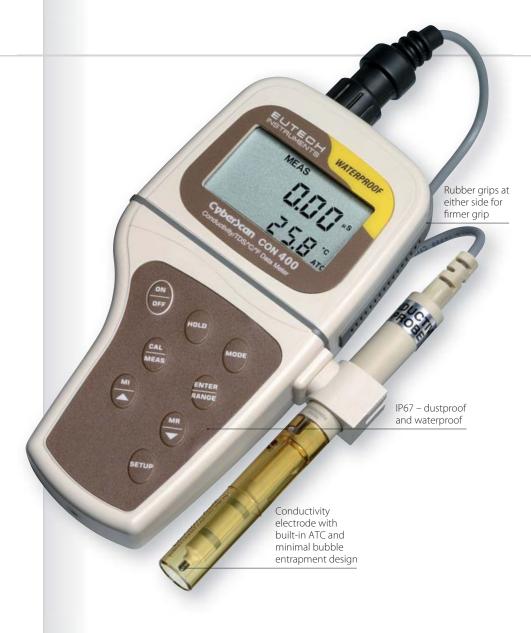
Waterproof to IP67, the CyberScan CON 400 delivers lab-accurate results stamped with time and date for GLP-compliant research.



Ergonomic design for that perfect palm fit



Available in complete kit version



- Conveniently auto-ranging with up to 5-point push-button calibration
- Measures TDS in addition to Conductivity and Temperature in °C and °F
- Adjustable TDS factor for direct derivation of TDS values
- Selectable cell constant
- GLP-compliant
- Selectable automatic/manual temperature compensation
- Hold function freezes readings for easy reference
- Auto-off conserves energy and lengthens battery life-span
- Non-volatile memory holds up to 50 data sets even when you run out of batteries



Applications

• Water quality testing • Geological and

Aquariums • Hydroponics • Fertilizers

Schools and laboratories

ecological testing • Cooling towers • Boiler water • Printing • Brines • Swimming pools and spas • Agriculture and aquaculture

CyberScan CON 110 ; CyberScan CON 11 Conductivity/TDS/°C/°F ; Conductivity/TDS/°C



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Conductivity/ **TDS/Salinity** CyberScan Standard Handheld

The economy CyberScan CON 110 and 11 are cost-effective, easy to use and self-diagnostic for easy trouble-shooting. Meters are uniquely designed to fit your palm perfectly for effortless one-hand operation.



Complimentary CyberComm Data Acquisition software



Direct data printout via RS232C



Adjustable electrode holder

- · Selectable automatic and manual calibration options
- Full-range accuracy with up to 5-point push-button calibration
- More accurate measurements with user-customisable options for normalisation temperature, TDS factor and temperature coefficient
- Non-volatile memory holds up to 50 data sets. Meter settings remain even when you run out of batteries
- Hold function freezes readings for easy reference
- Auto-off conserves energy and lengthens battery life-span
- Direct data transfer via RS232C output auto data-logging to PC with CyberComm DAS

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
- Expanded memory holds up to 100 data sets



Applications

General: Monitor dissolved solids or Conductivity levels quickly and easily in laboratories, field, schools and educational environments.

Industrial: Use for testing pollution control, water treatment, and water hardness. Also useful for checking cooling towers, boiler water, fountain solutions in printing operations, brines, swimming pools, whirlpools and rinse water.

Agricultural: Use for checking aquariums, fish farms, hydroponics, and fertilizer/ chemical concentrations.

Conductivity/ TDS/Salinity Economy Handheld

EUTECH

Reader-friendly

screen display

Splashproof keypad

Convenient benchtop stand

COND 6+ ; TDS 6+ Conductivity/°C TDS/°C



11

Sturdy and economical – the Eutech COND 6+ and Eutech TDS 6+ are no-frills handhelds perfect for basic water testing needs. The meters are rugged, sturdy and come with protective rubber boots and hinges that conveniently double up as benchtop stands.



Applications

Routine Testing: For quick, accurate Conductivity or TDS checks in laboratories, field and schools.

Environmental/Agricultural: Useful in nutrient and fertilizer checks in hydroponics and agricultural industries.

Water Quality Testing: For analysing water, hard water, untreated water, industrial and rinse water, drinking water, effluent water, pool water and incoming process water. Ideal for all types of quality assurance, printing industries and water quality testing.

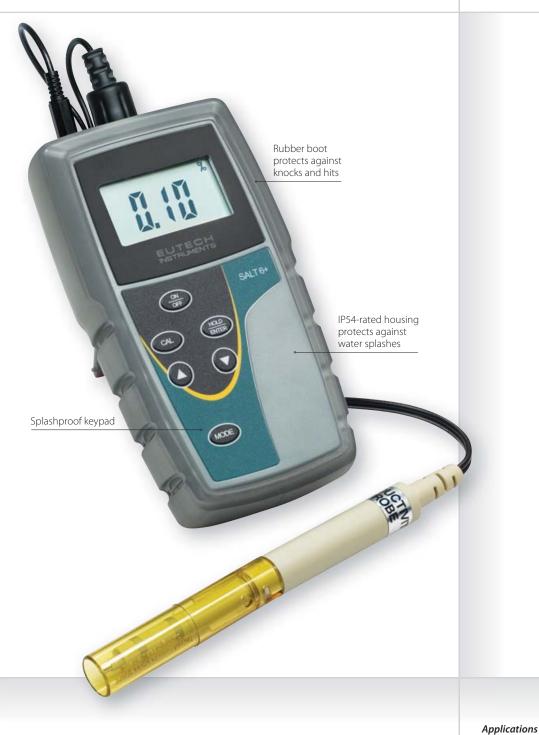
- Up to 5-point push-button calibration with auto-buffer recognition quick, easy calibration with no mistakes
- ±1 % full scale accuracy
- Selectable automatic/manual temperature compensation
- Auto-ranging for Conductivity measurements
- Adjustable TDS factor for direct derivation of values
- Non-volatile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





Conductivity/ TDS/Salinity Economy Handheld

With sturdy rubber boot, splash-proof keypad, large custom LCD and rugged carrying case, salinity testing on the go is a breeze with the Eutech Salt 6+.



- Measures in ppt and %
- Quick and easy push-button calibration
- 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



Routine Testing: For quick, accurate Salinity measurements in laboratories, field and schools.

Water Quality Testing: Ideal for salt levels in brines, pool water, aquaculture systems, aquariums (marine fish) and fish ponds (koi), food processing and healthcare industries.

Handheld Meters Specifications



Ma	odels		Cyb	erScan Dual-Dis	play		Eu	tech Single-Disp	olay		
IVIC		COND 610	COND 600	CON 400	CON 110	CON 11	COND 6+	TDS 6+	Salt 6+		
Conduct TDS/Sali Handhel Specifica	nity d Meters				7						
Measuring Par	ameter	Conductivity/TDS / Salinity/Resistivity/9C/9F	Conductivity	/ TDS / ºC / ºF	Conductivity/TDS/ °C / °F	Conductivity / TDS / °C	Conductivity / °C	TDS / °C	Salinity / ºC / ºF		
Highlights		Waterproof, GLP, RS232C, IrDA, linear & pure TC	Waterproof, GLP, RS232C, IrDA, linear TC	Waterproof, GLP	Expanded memory, RS232C output	Standard handheld	Economical CON measurement	Economical TDS measurement	High accuracy ov a wide Salinity range		
Conductivity	Range	to 2.000 μS 2.000 to 300.0 μS 300.0 μS to 4.000 mS 4.000 to 40.00 mS 40.00 to 500.0 mS	to 2.000 μS 2.000 to 300.0 μS 300.0 μS to 4.000 mS 4.000 to 40.00 mS 40.00 to 200.0 mS		_						
	Resolution		uS / 0.001 mS / / 0.1 mS			0.05 % full scale			_		
	Accuracy	0.011113	7 0.1 1115	±	1 % full scale + 1 LSD)			_		
TDS	Range (Depending On TDS Factor)	300.0 ppm to 4.000 ppt 4.000 to 40.00 ppt 40.00 to 500.0 ppt	to 2.000 ppm 2.000 to 300.0 ppm 300.0 ppm to 4.000 ppt 4.000 to 40.00 ppt 40.00 to 200.0 ppt		to 9.99 10.0 to 99 100 to 99 1.00 to 9 10.0 to 9	9.9 ppm 99 ppm 9.99 ppt	-	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		pm / 0.001 ppt / : / 0.1 ppt	0.05 % full scale		0.05 % full scale					
	Accuracy		±1 % full scale + 1 LS		0.40 ti		cale + 1 LSD	0.40 to 1.0			
	TDS Factor		:0 1.00	0.40 to 1.0							
l	Range	to 0.770 ppm 0.770 to 143.3 ppm 143.3 ppm to 2.138 ppt 2.138 to 23.64 ppt 23.64 to 80.00 ppt				1.0 to 50.0 ppt / 0 to 5.00 %					
	Resolution	0.01 ppm / 0.1 ppm / 0.01 ppt / 0.01 ppt			-				0.1 ppt / 0.01 %		
	Accuracy	±1% full scale + 1 LSD			-				±1 % full scale		
Resistivity	Range Resolution	2.000 to 25.00 Ω 25.00 to 25.00 Ω 25.00 to 3.333 kΩ 3.333 to 500.0 kΩ 500.0 kΩ to 20.00 MΩ 0.01 Ω/ 0.01 Ω/0.001 Ω/ 0.1 Ω / 0.01 MΩ									
Cal. Points	Accuracy	1 % full scale + 1 LSD	5 (1 per range) manual	5 (1 per range) manual							
can ronno	Range		(i per lange) manaan		4 (1 per rand	– ne) auto .5 (1 per ra	nge) manual	5 (1 per range) manual			
		-10.0 to 110 -C	/ 14.0 to 230 °F	5 (Tpertange/Thandar		– ge) auto, 5 (1 per ra 0 100.0 ℃ / 32.0 to 2		5 (1 per range) manual	-10.0 to 110 °C		
	Resolution	-10.0 t0 110 40	/ 14.0 to 230 °F	5 (i per la ige) manual	0.0 to 0.1 ℃ / 0.1 °F			5 (1 per range) manual	0.1 °C		
Temperature	Accuracy		/ 14.0 to 230 °F		0.0 to 0.1 ℃ / 0.1 ℃ ±0.5 ℃ / ±0.9 ℉	100.0 °C / 32.0 to 2		5 (1 per range) manual	0.1 ℃ ±0.5 ℃		
Temperature	Accuracy Compensation				0.0 to 0.1 ℃ / 0.1 °F) 100.0 °C / 32.0 to 2	212 ºF	5 (1 per range) manual	0.1 ℃ ±0.5 ℃ ATC/MTC(0 to 50 ℃		
Temperature	Accuracy Compensation Normalization		/ 14.0 to 230 ∘F 15 to 30 °C		0.0 to 0.1 ℃ / 0.1 ℉ ±0.5 ℃ / ±0.9 ℉ TC / MTC (0 to 80 ℃)) 100.0 °C / 32.0 to 2		5 (1 per range) manual	0.1 ℃ ±0.5 ℃ ATC/MTC(0to 50% 20.0 ℃ & 25.0 ℃ (selectable)		
Temperature	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient		15 to 30 ℃ Linear		0.0 to 0.1 ℃ / 0.1 ℃ ±0.5 ℃ / ±0.9 ℉) 100.0 °C / 32.0 to 2	212 °F 25.0 ℃	5 (1 per range) manual 3.0 %	±0.5 °C ATC/MTC(0 to 50 °C 20.0 °C & 25.0 °C		
Temperature	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP	Linear & pure	15 to 30 °C Linear Yes		0.0 to 0.1 ℃ / 0.1 ∘F ±0.5 ℃ / ±0.9 ∘F .TC / MTC (0 to 80 ℃) 0 to 50 ℃) 100.0 °C / 32.0 to 2	212 °F 25.0 ℃		0.1 °C ±0.5 °C ATC/MTC (0 to 50 °C 20.0 °C & 25.0 °C (selectable) 0 to 50 °C		
Temperature	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient	Linear & pure	15 to 30 ℃ Linear		0.0 to 0.1 ℃ / 0.1 ∘F ±0.5 ℃ / ±0.9 ∘F .TC / MTC (0 to 80 ℃) 0 to 50 ℃) 100.0 °C / 32.0 to 2	212 °F 25.0 ℃		0.1 °C ±0.5 °C ATC/MTC (0 to 50 °C 20.0 °C & 25.0 °C (selectable) 0 to 50 °C		
Temperature	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging	Linear & pure	15 to 30 °C Linear Yes es Yes es	P	0.0 to 0.1 ℃ / 0.1 ∘F ±0.5 ℃ / ±0.9 ∘F .TC / MTC (0 to 80 ℃) 0 to 50 ℃ 0.0 to 10.0 %	100.0 °C / 32.0 to 2) 20.0 o − −	212 °F 25.0 ℃		0.1 °C ±0.5 °C ATC/MTC (0 to 50 °C 20.0 °C & 25.0 °C (selectable) 0 to 50 °C		
	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging Memory	Linear & pure Y Y 500 da	15 to 30 ℃ Linear Yes es Yes es ata sets		0.0 to 0.1 ℃ / 0.1 ∘F ±0.5 ℃ / ±0.9 ∘F .TC / MTC (0 to 80 ℃) 0 to 50 ℃	100.0 °C / 32.0 to 2) 20.0 or – – 50 data sets	212 °F 25.0 ℃		0.1 °C ±0.5 °C ATC/MTC(0 to 50° 20.0 °C & 25.0 °C (selectable) 0 to 50 °C 0.0 to 3.0 %		
Meter	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging	Linear & pure Y Y 500 da 0.010 tc	15 to 30 °C Linear Yes es Yes es	A 50 data sets	0.0 to 0.1 ℃ / 0.1 ∘F ±0.5 ℃ / ±0.9 ∘F .TC / MTC (0 to 80 ℃) 0 to 50 ℃ 0.0 to 10.0 %	100.0 °C / 32.0 to 2 20.0 or - - 50 data sets 0.1, 1.0, 10.0	212 °F 25.0 °C - 0.0 tc -		0.1 °C ±0.5 °C ATC/MTC(0 to 50° 20.0 °C & 25.0 °C (selectable) 0 to 50 °C 0.0 to 3.0 %		
Meter	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging Memory Cell Constant LCD Display Auto-Off	Linear & pure Y Y 500 da 0.010 tc Dot-matrix LCD with	15 to 30 °C Linear Yes es es ata sets o 10.000 backlight (5.4 x 7.1 cm) er last key pressed	A 50 data sets Dual-	0.0 to 0.1 °C / 0.1 °F ±0.5 °C / ±0.9 °F TC / MTC (0 to 80 °C) 0 to 50 °C 0.0 to 10.0 %	100.0 °C / 32.0 to 2) 20.0 or - - 50 data sets 0.1, 1.0, 10.0 3 cm)	212 °F 25.0 °C - 0.0 tc -	3.0 %	0.1 °C ±0.5 °C ATC/MTC(0 to 50° 20.0 °C & 25.0 °C (selectable) 0 to 50 °C 0.0 to 3.0 % Yes		
Temperature Meter Features	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging Memory Cell Constant LCD Display Auto-Off Auto Hold	Linear & pure Y Y 500 da 0.010 tr Dot-matrix LCD with 2 to 30 mins afte	15 to 30 °C Linear Yes es es ata sets o 10.000 backlight (5.4 x 7.1 cm) er last key pressed	A 50 data sets Dual- es	0.0 to 0.1 °C / 0.1 °F ±0.5 °C / ±0.9 °F TC / MTC (0 to 80 °C) 0 to 50 °C 0.0 to 10.0 % 100 data sets display LCD (5.8 × 3.3	100.0 °C / 32.0 to 2) 20.0 or - - 50 data sets 0.1, 1.0, 10.0 3 cm) 20 mins after	212 oF 25.0 ℃ 0.0 tc - Single ast key pressed	3.0 % 	0.1 °C ±0.5 °C ATC/MTC(0 to 50° 20.0 °C & 25.0 °C (selectable) 0 to 50 °C 0.0 to 3.0 % Yes .3 cm)		
Meter	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging Memory Cell Constant LCD Display Auto-Off Auto Hold Input	Linear & pure Y Y 500 da 0.010 tr Dot-matrix LCD with 2 to 30 mins afte DC phono socket	15 to 30 °C Linear Yes es es ata sets o 10.000 backlight (5.4 x 7.1 cm) er last key pressed Yi s, 8-pin connector	A 50 data sets Dual-	0.0 to 0.1 °C / 0.1 °F ±0.5 °C / ±0.9 °F TC / MTC (0 to 80 °C) 0 to 50 °C 0.0 to 10.0 % 100 data sets display LCD (5.8 x 3.3	100.0 °C / 32.0 to 2) 20.0 or - - 50 data sets 0.1, 1.0, 10.0 3 cm) 20 mins after	212 oF 25.0 ℃ 0.0 tc - Single ast key pressed	3.0 %	0.1 °C ±0.5 °C ATC/MTC(0 to 50° 20.0 °C & 25.0 °C (selectable) 0 to 50 °C 0.0 to 3.0 % Yes .3 cm)		
Meter	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging Memory Cell Constant LCD Display Auto-Off Auto Hold Input Output Power	Linear & pure Y Y 500 da 0.010 tc Dot-matrix LCD with 2 to 30 mins afte DC phono socket IrDA, RS232 4 x 1.5 V 'AA' alk 9 V DC adag	15 to 30 °C Linear Yes es Yes es ata sets b 10.000 backlight (5.4 x 7.1 cm) rr last key pressed Yes s, 8-pin connector C (via LED) * aline batteries or bter, 500 mA	A 50 data sets Dual- es 6-pin connector - 4 x 1.5 V 'AAA' alkaline batteries	0.0 to 0.1 °C / 0.1 °F ±0.5 °C / ±0.9 °F TC / MTC (0 to 80 °C) 0 to 50 °C 0.0 to 10.0 % 100 data sets display LCD (5.8 × 3.3 DC socket, 6-p RS232C 4 × 1.5 V 'AAA' alka 9 V DC adap	100.0 °C / 32.0 to 2) 20.0 or 20.0 or 50 data sets 0.1, 1.0, 10.0 3 cm) 20 mins after bin connector aline batteries or ter, 200 mA	212 °F 25.0 ℃ 0.0 tc - Single ast key pressed	3.0 % 	0.1 °C ±0.5 °C ATC/MTC(0 to 50 °C (selectable) 0 to 50 °C 0.0 to 3.0 % Yes 		
Meter	Accuracy Compensation Normalization Operating Temp. Temperature Coefficient GLP Cal-Due Alarm IP67 Datalogging Memory Cell Constant LCD Display Auto-Off Auto Hold Input Output	Linear & pure Y Y 500 da 0.010 to Dot-matrix LCD with 2 to 30 mins afte DC phono socket IrDA, RS232 4 x 1.5 V 'AA' alk 9 V DC adag > 20	15 to 30 °C Linear Yes es Ata sets o 10.000 backlight (5.4 x 7.1 cm) rr last key pressed Yes s, 8-pin connector C (via LED) * aline batteries or	A 50 data sets Dual- es 6-pin connector - 4 x 1.5 V 'AAA'	0.0 to 0.1 °C / 0.1 °F ±0.5 °C / ±0.9 °F TC / MTC (0 to 80 °C) 0 to 50 °C 0.0 to 10.0 % 100 data sets display LCD (5.8 × 3.3 DC socket, 6-p RS232C 4 × 1.5 V 'AAA' alka	100.0 °C / 32.0 to 2) 20.0 or 20.0 or 20.0 or 50 data sets 0.1, 1.0, 10.0 3 cm) 20 mins after oin connector aline batteries or ter, 200 mA 0 hrs	212 oF 25.0 ℃ 0.0 tc - Single ast key pressed BN 4 x 1.	3.0 % 	0.1 °C ±0.5 °C ATC/MTC(0 to 50° 20.0 °C & 25.0 °C (selectable) 0 to 50 °C 0.0 to 3.0 % Yes .3 cm) cket		

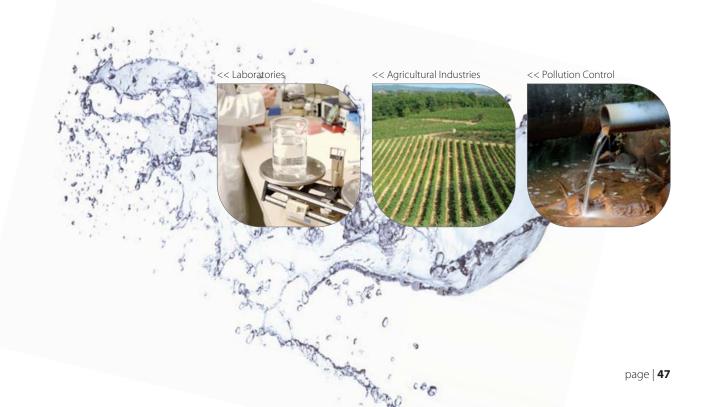
• 1 mS/cm = 1000 μ S/cm (μ S: microSiemens / mS: miliSiemens) • 1 ppt = 1000 ppm (ppm: parts per million / ppt: parts per thousand) ** Maximum 199.9 ppt depending on factor setting * RS232C (LED) interface adapter available as separate accessory (see page 47 for order information)



Conductivi	onductivity/TDS/Salinity Handheld Meters																
			Parameters					Electrodes			Accessories					_	
ltem	Order Code	Part No.	Conductivity	TDS	Salinity	Resistivity	Temperature	4-Cell Conductivity Electrode (CONSEN9203J)	Conductivity Electrode (CONSEN91W)	Conductivity Electrode (CONSEN91B)	CyberComm 600 DAS Software	CyberComm Portable DAS Software	Electrode Holder	RS232C Cable	Power Adapter	CyberScan Carry Kit Set With Calibration Stds	Economy Carry Kit Set With Calibration Stds
COND 610	ECCONWP61043K	01X418307	•	•	•	•	•	•			•				•	•	
COND 600	ECCONWP60043K	01X418304	•	•			•	•			•				•	•	
CON 400	ECCONWP40003K	01X251410	•	•			•		•				•			•	
CON 110	ECCON11003K	01X366309	•	•			•		•			•	•	•		•	
CON 11	ECCON1103K	01X366305	•	•			•		•				•			•	
COND 6+	ECCON603PLUSK	01X289425	•				•			•							•
TDS 6+	ECTDS603PLUSK	01X289427		•			•			•							•
Salt 6+	ECSALT603PLUSK	01X289429			•		•			•							• *

* Economy Salinity carry kit set – plastic carry case, 5 ppt, 25 ppt, 45 ppt NaCl standard solutions, deionised rinse water

Replacement Electrodes & Acces	sories		
Used With	Description	Order Code	Part No.
COND 610 / COND 600	4-cell epoxy body Conductivity electrode, ATC, cell constant K=0.530, 12 x 120 mm, 8-pin connector, 3 m cable	CONSEN9203J	01X244723
COND 610 / COND 600	2 stainless steel rings ultem-body Conductivity electrode, ATC, cell constant K=1.0, 16 x 144 mm, 8-pin connector, 1 m cable	CONSEN91J	01X244721
CON 400 / CON 110 / CON 11	2 stainless steel rings ultem-body Conductivity electrode, ATC, cell constant K=1.0, 16 x 144 mm, 6-pin connector, 1 m cable	CONSEN91W	01X244702
COND 6+ / TDS 6+ / Salt 6+	2-stainless steel rings ultem-body Conductivity electrode , ATC, cell constant K=1.0, 16 x 144 mm, BNC connector, 1 m cable	CONSEN91B	01X244701
COND 610 / COND 600	CyberScan CON 600 series carry kit set – plastic carry case, 442 standard solutions (1413 mS, 12.88 mS KCl, 3000 ppm), deionised rinse water	ECCONWP600KIT	01X430202
COND 610 / COND 600	100 / 240 VAC SMPS power adapter, 9 V, 6 W, centre +ve, US / UK / EUR / Japan plug	01X030132	01X030132
COND 610 / COND 600	RS232C (LED) interface adapter	91100-85	01X344202
CON 400 / CON 110 / CON 11	CyberScan Conductivity / TDS carry kit set – plastic carry case, 442 standard solutions (1413 mS, 12.88 mS KCl, 111.8 mS KCl), deionised rinse water	ECCONWPKIT	01X266802
CON 110 / CON 11	100 / 240 VAC SMPS power adapter, 9 V, 6 W, centre +ve, US / UK / EUR / Japan plug	60X030130	60X030130
CON 110	RS232C communication cable – 9-pin male to 9-pin female connector, 1 m cable	ECCA02M09F09	30X219503
COND 6+ / TDS 6+	Economy Conductivity / TDS carry kit set – plastic carry case, 442 standard solutions (1413 mS, 12.88 mS KCl, 3000 ppm), deionised rinse water	ECECOCONKIT	01X266902
12 mm diameter electrode	Electrode holder	15X000700	15X000700
All except 600 series	CyberScan handheld carry pouch	ECPOUCH02	56X201400



Conductivity/ TDS/Salinity Deluxe Bench



turns completely black when stable



Large informative display



Download the latest software from our website



Non-skid foot pads

Environmental studies
Chemical

laboratories • Quality assurance testing Food science • Ecological studies

• Education institution



Featuring auto-standardization, auto-calibration and auto-ranging capabilities, the Eutech CON 2700 accepts 2-cell and 4-cell electrodes, allowing a broad range of measurement at up to ± 1 % full scale accuracy. Meter comes with a multi-data screen that shows Conductivity readings, temperature, electrode status, calibration points, date and time all at once.



- Choose auto-calibration with preset values for quick easy calibration, or manual multi-point calibration for greater accuracy
- Easy standardization with auto-standardization feature detect the exact cell constant value of your electrodes with the press of a button
- Quick, easy electrode diagnosis with the effective cell constants display
- Replatinization in 5 minutes with the built-in replanitization circuit
- Non-volatile memory holds up to 500 data points time and date-stamped for GLP compliance
- Bi-directional RS232 for easy data transfer to computer
- Cal-due alarm no more out-dated calibrations!
- Auto-logging function for convenient continuous monitoring
- Limit alarm alerts when reading falls out of range
- Password protection for setup and calibration

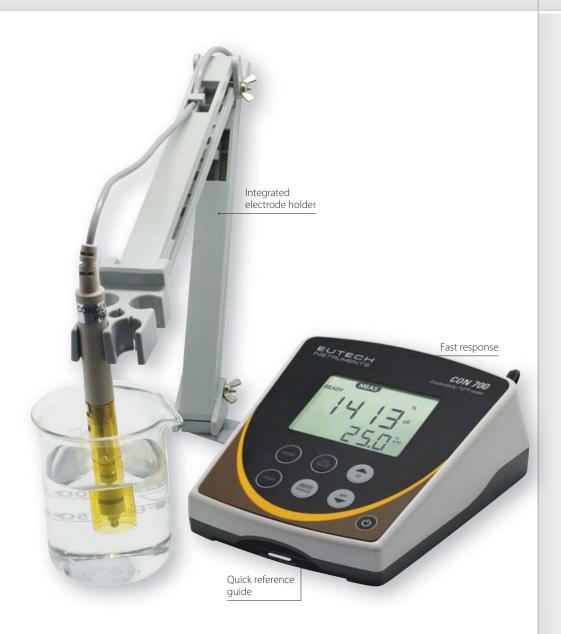
Electrode arm and bracket available as separate accessory (order code: 01X321801) – please refer to-page 106





Conductivity/ TDS/Salinity Economy Bench

The economy Eutech CON 700 offers years of reliable, accurate and consistent performance. User-friendly features make the instrument an ideal research partner in laboratories, productions plants and schools.



Conductivity/TDS/Salinity

Larger display



Electrode arm can be used on either side



Splashproof keypad



Non-skid foot pads

• Large, comprehensive screen that displays readings, calibration points and electrode indicator

- Ready indicator alerts when readings are stable
- Selectable cell constant
- Auto-ranging across 5 conductivity ranges
- Up to 5-point push button calibration
- Non-volatile memory holds up to 100 data points
- Integral electrode holder

Electrode arm and bracket available as separate accessory (order code: 01X321801) – please refer to page 106



Applications

Environmental studies
Chemical

- laboratories Quality assurance testing
- Food science Ecological studies
- Education institution

Bench Meters Specifications & Ordering Information



NA.	odel	Deluxe Bench	Economy Bench								
IVIC	Dael	CON 2700	CON 700								
Conduct TDS/Sali Bench M Specifica	nity leters										
Measuring Par	ameter	Conductivity / TDS / Salinity / Resistivity / °C / °F	Conductivity / TDS / °C / °F								
Highlights		Graphic LCD with backlight & extensive display	Large LCD with dual display								
	Range	0.050 µS to 500.0 mS	µS to 200.0 mS								
	Resolution	0.01 / 0.1 μS	0.01 / 0.1 / 1 μS								
Conductivity	Resolution	0.001 / 0.01 / 0.1 mS	0.01 / 0.1 mS								
	Accuracy	±1 % full scale	±1 % full scale								
	Cal. Points		Up to 5								
	Range (Depending On TDS Factor)	0.050 ppm to 500 ppt (@TDS factor 1.00)	to 100.0 ppt @ 0.5 fact (200.0 @ 1 factor)								
TDS	Resolution	0.01 / 0.1 ppm 0.001 / 0.01 / 0.1 ppt	0.01 / 0.1 / 1 ppm 0.01 / 0.1 ppt								
	Accuracy	±1% full scale	±1 % full scale								
	Cal. Points		Up to 5								
	Range	0 to 80.0 ppt	-								
Salinity	Resolution	0.01 / 0.1 ppm 0.001 / 0.01 / 0.1 ppt	-								
Sum ()	Accuracy	±1 % full scale	_								
	Cal. Points	Up to 5	_								
	Range	2.000 Ω to 20.0 MΩ	_								
B	Resolution	0.01 / 0.1 Ω ; 0.001 / 0.1 kΩ ; 0.01 MΩ	-								
Resistivity	Accuracy	±1 % full scale	-								
	Cal. Points	Up to 5									
	Range (Meter)	0.0 to 100.0	PC / 32.0 to 212.0 °F								
	Resolution	0.1	°C / 0.1 °F								
Tauran awatu wa	Accuracy	±0.3 °C / ±0.5 °F	±0.5 °C / ±0.9 °F								
Temperature	Coefficient	Linear & pure ; 0.000 to 10.000 % (per ℃)	0.00 to 10.00 % (per °C)								
	Normalization	15.0 to 30.0	°C / 59.0 to 86.0 °F								
	Compensation	A	TC / MTC								
	GLP	Yes	-								
	Cell Constant	0.010 to 10.000	0.1 / 1.0 / 10.0								
	Datalogging	Yes	-								
Meter	Memory	500 data sets	100 data sets								
Features	LCD Display	Graphic LCD with backlight (5.9 x 7.8 cm)	Custom dual-display LCD (5.6 x 7.5 cm)								
	Input	DC socket, 8-pin DIN (2-cell or 4-cell), RS232	DC socket, 8-pin DIN (2-cell)								
	Output	RS232	-								
	Power	9 V DC adapter, 1.3 A (100 / 240 VAC, SMPS)									
Dimensions	Meter	17.5 x 15.5 x 6.9 cm ; 650 g									
(LxWxH); Weight	Boxed	30.8 × 23.5	x 12.4 cm ; 1800 g								

 $\cdot 1 \text{ mS/cm} = 1000 \mu \text{S/cm} (\mu \text{S: microSiemens / mS: miliSiemens)} + 1 \text{ ppt} = 1000 \text{ ppm: parts per million / ppt: parts per thousand)}$

Conductiv	Conductivity/TDS/Salinity Bench Meters												
			Parameters					Elect	rodes				
ltem	Order Code	Part No.	Conductivity	TDS	Salinity	Resistivity	Temperature	4-Cell Conductivity Electrode (CONSEN9201D)	2-Cell Conductivity Electrode (CONSEN9501D)	Integral Electrode Holder	RS232 Cable (30X427301)	Power Adapter	Conductivity Sachets
CON 2700	ECCON270043S	01X543905	•	•	•	•	•	•		•	•	•	•
CON 700	ECCON70043S	01X543401	•	•			•		•	•		•	•

Replacement Electrodes & Accessories Used With 4-cell, epoxy-body, graphite sensor, "Bulls Eye" Conductivity electrode, ATC, cell constant=0.530, 01X244730 CON 2700 CONSEN9201D 12 x 120 mm, 8-pin DIN connector, 1 m cable 2 stainless steel rings ultem-body Conductivity electrode, ATC, cell constant K=1.0, 16 x 144 mm, CON 700 CONSEN9501D 01X466602 8-pin connector, 1 m cable CON 2700 RS232 to USB cable - use with 30X427301 cable to connect 2700 to USB port of PC 30X544601 30X544601 CON 2700 100 / 240 VAC SMPS power adapter, 9 V, 6 W 60X426401 60X426401 60X030130 CON 700 100 / 240 VAC SMPS power adapter, 9 V, 6 W 60X030130