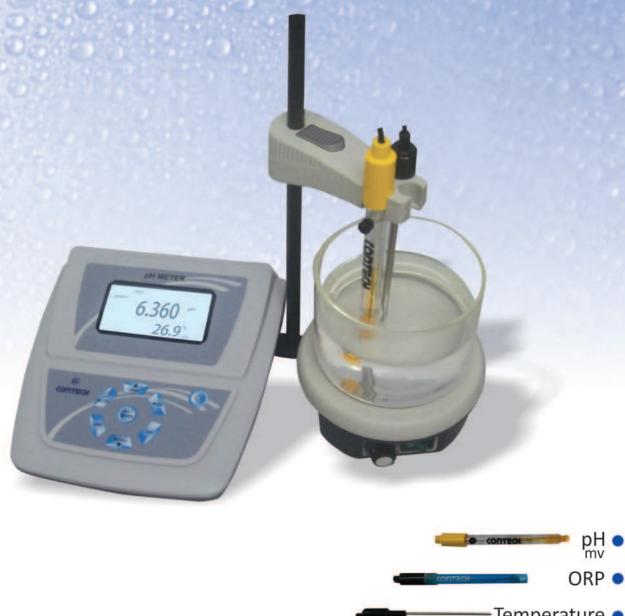
ELECTROCHEMICAL INSTRUMENTS









CONTECH

Where innovation never stops ...



India's Largest Electro Magnetic Force Compansation (EMFC) Balance Assembly Line since 1992



Total Inhouse Manufacturing & Testing Facility to Achieve the Highest Quality Standards.

CONTECH® Instruments Ltd., an ISO 9001: 2008 Company established in the year 1992 has an installation base of more than 3 lac customers all over the world. CONTECH® is the only Indian manufacturer who has developed and manufactured in true sense the complete range of electronic balances from 0.01mg accuracy Analytical Balances to 100 ton Electronic Weighbridges in its own setup illustrating the technical competence of the Company.

equipments and machines for the manufacturing and testing of high precision laboratory instruments. 100% strict quality control, vigorous testing at every stage has made **contect** to be the most reputed and leading name for laboratory instruments. Company's friendly attitude with customers and constant interaction with them has led to the standardization of its products in many Industries and Institutions across the country. Where innovation never stops.... is the slogan of **Contech Instuments Ltd.** & is synonymous with **contech**, having more than 200 models of various laboratory instruments. Company's stress on continuous research and development has enabled it to offer latest products with features matched by none in the field of laboratory instrumentation.

instrumentation has helped it to roll out complete range of electro chemical instruments for water quality analysis viz. pH, mV, ORP, Conductivity, TDS, Salinity, Resistivity, Dissolved oxygen, Ion concentration and combination of various parameters.

These electrochemical instruments are the perfect combination of reliable high technology electrochemical sensors with state of the art electronic design coupled with advanced software. These instruments cover innumerable applications in the field of Research, Education, Chemical, Pharmaceutical, Food processing, Cosmetics, Biological, Agricultural & Water quality analysis.



MULTIPARAMETER METER I

pH,mv,ms,µs,mg/L,ppt,%,ppm,°C

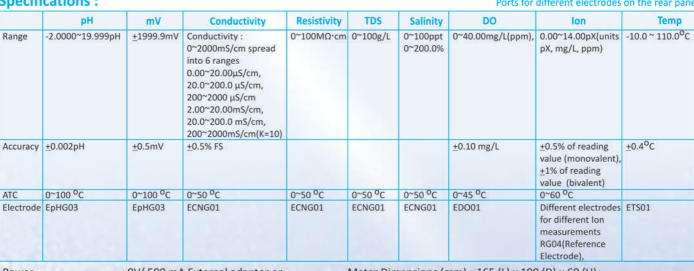
FOR WATER QUALITY ANALYSIS-CMP-01

Multiparameter Meter is the perfect combination of advanced Electro chemical sensor technology with state of the art electronics and software design. This instrument can measure several parameters, like pH, mV, Conductivity TDS, Salinity, Resistivity, Dissolved oxygen, Ion concentration and temperature using different electrodes. Large scale integration of circuit using surface mounted components and dedicated backlite LCD with display of various measuring parameter units for different parameters being measured has enabled to use this compact instrument for the measurement of multiple parameters without any ambiguity. This instrument is very useful where all parameters need to be measured like in the field of environmental protection, water quality checking, disease control, biological agriculture, aqua culture & scientific research.

Features

- pH, mV, Conductivity, Resistivity, TDS, Salinity, DO, Ion Concentration, Temperature modes.
- Automatic or Manual temperature Compensation.
- 3 point pH calibration.
- Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH. 10.01pH and 12.45pH
- Automatic buffer recognition.
- 1 point conductivity calibration for the entire range.
- Dissolved oxygen electrode with the salinity measurement feature to achieve automatic salinity & temperature compensation.
- Automatic air pressure compensation for DO with the help of air pressure sensor.
- Polarographic type DO electrode offers short polarization time, quick response and precise measurements.
- 2 point Ion concentration standard solution calibration.
- Switching option among 3 measurement units of Ion concentration, pX, mg/L, ppm.
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- Single and continuous print out of measuring parameters.
- Multiple Printout types. Combinations selectable from Sr. No., pH, mV, conductivity, TDS, Salinity, DO, Ion Concentration, Date, time and temperature.
- Real Time Clock.
- Calibration report as per GLP requirements.
- Electrode Slope and mV offset display.
- LCD display with Backlight.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S. 1M. 2M and 5M.
- Temperature calibration with respect to solution of known temperature.

Specifications:



: 9V/ 500 mA External adaptor or Power

battery backup unit (Optional)

Operating Temperature: 15~45°C

Meter Weight : 700 g

Standard Accessories

Meter Dimensions (mm): 165 (L) x 190 (D) x 60 (H)

: Magnetic Stirrer MS-01





Customised large white backlight LCD with display of various measuring parameter units



Ports for different electrodes on the rear panel

LAB pH METER, ECONOMY CpH-101

Contech CpH-101 Bench top pH Meter is an economy model for the measurement of pH incorporating latest electronic design coupled with reliable electro chemical sensor. These economy pH Meters cover innumerable applications in Education, Chemical, Food processing, Cosmetic, Biological & Agricultural fields.

Features

- · Display of pH and mV measurement.
- · Manual temperature compensation, temperature setting manually.
- · 3 point pH calibration, Automatic buffer recognition.
- Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH. 10.01pH and 12.45pH



CpH-102, an advanced Bench top pH Meter is the perfect combination of the state of the art electronic design coupled with advanced software & reliable electro chemical sensor higher uses a combination plastic pH electrode with inbuilt temperature sensor for the simultaneous measurements of pH & temperature & automatic temperature correction. CpH-103, a higher end bench pH Meter incorporates a glass electrode & seperate temperature sensor for high accuracy pH measurement & automatic temperature compansation.

These pH Meters cover innumerable applications in Research, Education, Chemical, Pharmaceutical, Food processing, Cosmetic, Biological & Agricultural fields.



- pH, mV and temperature measurement.
- Automatic or Manual temperature Compensation
- 3 point pH calibration, Automatic buffer recognition.
- Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH.
 10.01pH and 12.45pH
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- Single and continuous print out of measuring parameters.
- Multiple Printout types. Combinations selectable from Sr. No., pH, mV, Date, time and temperature.
- Real Time Clock. Calibration report as per GLP requirements.
- Electrode Slope and mV offset display.
- Memory storage of 100 pH measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.

O CONTECH

pH,mv

For CpH-103

inbuilt temp.

sensor for CpH-102

Specifications:

Model	CpH-101	CpH-102	CpH-103	
pH Range	0-14pH	0-14pH	-2.0000~19.999pH	
pH Resolution	0.01pH	0.01pH	0.001pH	
pH Accuracy	±0.02pH	<u>+</u> 0.01pH	<u>+</u> 0.002pH	
Temperature compensation	Manual	Automatic or Manual	Automatic or Manual	
Temperature range	0~100° C	0~100° C	0~100 ^o C	
mV Range	±1999mV	<u>+</u> 1999mV	<u>+</u> 1999.9mV	
mV Resolution 1mV		1mV	0.1mV	
mV Accuracy ±2mV ±1		±1mV	<u>+</u> 0.5mV	
Electrode pH combination electrode - Plastic- EpHP01		pH combination electrode with built in temperature sensor - Plastic-EpHP02	pH combination electrode - Glass -EpHG03	
Temperature Electrode	\ 	Built in	Temperature sensor electrode - ETS01	
Meter Dimensions (mm)	175 (L) x 140 (D) x 55 (H)	165 (L) x 190 (D) x 60 (H)	165 (L) x 190 (D) x 60 (H)	
Meter Weight	600 g	700 g	700 g	

Display : Backlight LCD

Power : 9V/ 500mA External adaptor or battery backup unit. (Optional)

Operating Temperature : 15~45°C



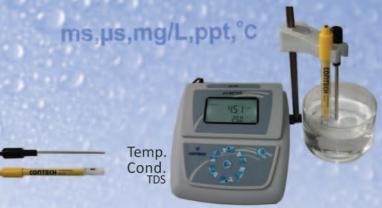
рΗ

CC-01

Conductivity, Resistivity, Total Dissolved Solids(TDS), Salinity & Temperature of any solution. This instrument is suitable in the field of water quality monitoring, aqua culture, biological agriculture, scientific & educational research, food safety, petrochemical and environmental protection. It uses ECNG01 glass electrode with a platinum plate sensitive element coated with platinum black to avoid errors due to polarization especially in solutions of high conductivity.

Features

- Conductivity, resistivity, total dissolved solids(TDS), salinity & temperature measurement.
- Automatic or manual temperature compensation
- 1 point calibration for the entire range.
- Bi directional RS232 interface. Baud rate selectable from 1200, 2400, 4800 and 9600.
- · Single and continuous print out of readings.
- Multiple Printout types. Combinations selectable from different measuring units.
- Real Time Clock. Calibration report as per GLP requirements.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.



Specifications:

Power

Measurement Range : Conductivity : 0~2000mS/cm spread into

6 ranges 0.00~20.00μS/cm, 20.0~200.0 μS/cm,

200~2000 μS/cm, 2.00~20.00mS/cm, 20.0~200.0 mS/cm, 200~2000mS/cm(K=10)

Resistivity: 0~100MΩcm

TDS: 0~100g/L Salinity: 0~100ppt

Temperature : -10.0 $^{\sim}$ 110.0 $^{\circ}$ C

Precision : Conductivity : ±0.5% FS

Temperature : ±0.4°C

ATC : 0~50 °C

Display : Backlite LCD

: 9V/ 500 mA External adaptor or battery backup unit (Optional)

Operating Temperature: 15~45°C

Meter Dimensions(mm): 165 (L) x 190 (D) x 60 (H)

Meter Weight : 700 g

Electrode : Conductivity electrode - ECNG01 Temperature sensor electrode- ETS01

DISSOLVED OXYGEN METER CDO-01

Dissolved Oxygen Meter incorporates membrane electrode method to measure dissolved oxygen concentration, and saturation of water solution. Polarographic type dissolved oxygen electrode offers quick response, accurate measurement, short polarization time along with features for automatic salinity and temperature compensation & air pressure correction with the help of built in air pressure sensor. DO meters are useful for aquaculture, monitoring of water resource, beverage production, sewage disposal, biological agriculture, environmental protection and scientific research.

Features

- Dissolved oxygen and temperature measurement.
- Polarographic type DO electrode offers short polarization time, quick response and precise measurements.
- Easy to use electrode calibration sets and diaphragm cap.
- Dissolved oxygen electrode with the salinity measurement feature to achieve automatic salinity & temperature compensation.
- Automatic air pressure correction with the help of air pressure sensor.
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- Single and continuous print out of readings.
- Multiple Printout types. Combinations selectable from different measuring parameters.
- Real Time Clock. Calibration report as per GLP requirements.
- Memory storage of 100 test results.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- · Supplied with Magnetic Stirrer MS-01 as standard.



Specifications:

Measurement Range : DO : 0~40.00mg/L(ppm), 0~200.0%

Temperature : $0 \sim 45^{\circ}C$: DO : $\pm 0.10 \text{ mg/L}$ DO

Precision : DO : ±0.10 mg/L Temperature : ±0.4°C

Temperature correction: Automatic 0~45°C
Salinity correction: Automatic 0~45ppt
Air pressure correction: Automatic 80 ~ 105kPa

Display : Backlight LCD

Power : 9V/ 500 mA External adaptor or

battery backup unit (Optional)

Operating Temperature: 15~45°C

Meter Dimensions (mm): 165 (L) x 190 (D) x 60 (H)

Meter Weight : 700 g

Electrode : DO electrode-ED001

Magnetic Stirrer : MS-01

ORP METER COR-01

of pH and oxidation reduction potential (ORP) in liquids. These ORP meters are mainly used in common solution and waste water testing.

Features

- pH, Rel.mV and temperature measurement.
- Automatic or manual temperature compensation.
- · 3 point pH calibration.
- Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH. 10.01pH and 12.45pH
- · Automatic buffer recognition.
- Bi directional RS232 interface. Baud rate selectable from 1200, 2400.4800 and 9600.
- · Single and continuous print out of pH/Rel.mV.
- Multiple Printout types. Combinations selectable from Sr. No., pH, Rel.mV, Date, time and temperature.
- Real Time Clock. Calibration report as per GLP requirements.
- Electrode Slope display.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.

Specifications :

pH Range : 0-14pHpH Resolution : 0.01pHpH Accuracy : $\pm 0.01pH$

ORP

Temperature range : 0~100°C
ORP Range : ±2000mV
ORP Resolution : 1mV
ORP Accuracy : ±1mV

Input Resistance : >1x1012 ohms

Temperature compensation: Automatic or Manual

Display : Backlight LCD, Character height
Power : 9V/ 500 mA External adaptor or
battery backup unit (Optional)

pH,Rel.mv,°C

Operating Temperature : 15~45°C

Meter Dimensions (mm) : 165 (L) x 190 (D) x 60 (H)

Meter Weight : 700 g

ORP Electrode : ORP Combination Electrode EORP-01 Temperature Electrode ETS01

pH(pX),mg/L,ppm,mv,°C

ION CONCENTRATION METER CIC SERIES

Laboratory Ion Concentration Meters when used with particular Ion selective electrode and corresponding reference electrode can measure the correspondent electrode potential mV value, pX value and Ion concentration. These instruments are useful in the field of Food Safety, Petrochemical, Water quality checking, Aqua Culture, Biological Agriculture, Environmental Protection and Research and Education.

Features

- Concentration unit mv & temperature measurement.
- 2 point lon concentration standard solution calibration.
- Automatic or Manual temperature Compensation
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- · Single and continuous print out of readings.
- Multiple Printout types. Combinations selectable from Sr. No., concentration unit, mV and temperature.
- Real Time Clock. Calibration report as per GLP requirements.
- LCD display with Backlight.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.





Temp. ION Ref.

Model	CICNa	CICCa	CICF	
Measurement parameters	Na+ concentration, mV, Temp	Ca2+ concentration, mV, Temp	F- concentration, mV, Temp	
Measuring Units	pNa, mg/L, ppm	pCa, mg/L, ppm	pF, mg/L, ppm	
Measuring Range	0.00~9.00 pNa	0.00~9.00 pCa	0.00~9.00 pF	
mV Range	±1999.9mV	<u>+</u> 1999.9mV	±1999.9mV	
Temperature Range	-10~ 110℃	-10~ 110℃	-10~ 110℃	
Measurement Accuracy	±0.01pNa	±0.01pCa	±0.01pF	
mV Accuracy	±0.1% FS	±0.1% FS	±0.1% FS	
Temperature Accuracy	±0.5℃	±0.5° C	±0.5°C	
ATC Range 0~50℃		0~50°C	0~50°C	
Electrodes	EINaG01(Sodium Ion	EICaP01(Calcium combination	EIFC01(Fluoride Ion Electrode),	
	Electrode), ERG02(Reference	Electrode),	ERG01 (Reference electrode)	
	Electrode), ETS01(Temperature Electrode)	ETS01(Temperature Electrode)	ETS01(Temperature Electrode)	
Standard Accessories	MS-01(Magnetic Stirrer)	MS-01(Magnetic Stirrer)	MS-01(Magnetic Stirrer)	

Power : 9V/ 500 mA External adaptor orbattery backup unit. (Optional) Operating Temperature : $15^{\sim}45^{\circ}C$

Meter Dimensions (mm): 165 (L) x 190 (D) x 60 (H)

Meter Weight : 700 g

DUAL PARAMETER METERS

In some applications there may be a need to measure different parameters of a solution. The same can be fulfilled by using a single instrument with different electrodes for the respective parameter. A single instrument can measure simultaneously different combinations such as pH / Conductivity, pH/ Ion concentration, pH /Dissolved oxygen, Conductivity/Dissolved oxygen along with temperature. These instruments find usage in environmental protection, water quality checking, biological agriculture, aqua culture, scientific research and studies, etc.



pH,mv,ms, µs,mg/L,ppt,°C pH/Conductivity Meter - CpHC

Features

- pH, mV, Conductivity, Resistivity, TDS, Salinity, Temperature modes.
- Automatic or Manual temperature Compensation.
- 3 point pH calibration.
- Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH. 10.01pH and 12.45pH
- Automatic buffer recognition.
- 1 point conductivity calibration for the entire range.
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- Single and continuous print out of measuring parameters.
- Multiple Printout types. Combinations selectable from Sr. No., pH, mV, conductivity, TDS, Salinity, Date, time and temperature.
- Real Time Clock.
- Calibration report as per GLP requirements.
- Electrode Slope and mV offset display.
- LCD display with Backlight.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.

Specifications:

pH Range : -2.0000~19.999pH mV Range : +1999.9mV

Conductivity Range : 0~2000mS/cm spread into 6 ranges

0.00~20.00μS/cm, 20.0~200.0 μS/cm,

200~2000 μS/cm

2.00~20.00mS/cm, 20.0~200.0 mS/cm,

200~2000mS/cm(K=10)

Resistivity Range : 0~100MΩcm **TDS Range** : 0~100g/L Salinity Range :0~100ppt :-10.0~110.0°C Temperature Range pH Accuracy : ±0.002pH : +0.5mV mV Accuracy : ±0.5% FS Conductivity Accuracy Temperature Accuracy : ±0.4°C : 0~100°C ATC pH **ATC Conductivity** : 0~50°C

pH Electrode : pH combination electrode-EpHG03 Temperature Electrode: Temperature sensor electrode-ETS01

Conductivity Electrode : ECNG01 Meter Weight : 700 g

pH/Ion Concentration Meter - CpHI pH, mv, mg/L, ppm, °C

Features

- pH, mV, Ion concentration, Temperature modes.
- Options of different kinds of lons.
- Automatic or Manual temperature Compensation.
- 3 point pH calibration.
- Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH. 10.01pH and 12.45pH
- Automatic buffer recognition.
- 2 point Ion concentration standard solution calibration.
- Switching option among 3 measurement units of Ion concentration, pX, mg/L, ppm.
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- Single and continuous print out of measuring parameters.
- Multiple Printout types. Combinations selectable from Sr. No., pH, mV, Ion concentration unit, date, time and temperature.
- Real Time Clock.
- Calibration report as per GLP requirements.
- Electrode Slope and mV offset display.
- LCD display with Backlight.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.





Specifications:

: -2.0000~19.999pH pH Range mV Range : +1999.9mV

Ion Conc. Range : 0.00~14.00pX(units pX,mg/L,ppm)

Temperature Range : -10.0 ~ 110.0°C pH Accuracy : ±0.002pH : ±0.5mV mV Accuracy

: ±0.5% of reading value (monovalent), Ion Conc. Accuracy

: ±1% of reading value (bivalent)

Temperature Accuracy: ±0.4°C ATC pH :0~100°C ATC Ion Concentration: 0~60°C

: pH combination electrode - EpHG03 pH Electrode Temperature Electrode: Temperature sensor electrode- ETS01 **ION Electrode** : Different ION concentration & different

reference electrodes for different ION

measurement

Standard Accessories : Magnetic Stirrer MS-01

Meter Weight : 700 g





pH / Dissolved Oxygen Meter - CpHDO pH,mv,mg/L,ppm,%,°C

pH mv DO Temp.

Features

- pH , mV, DO, Temperature modes.
- Dissolved oxygen electrode with the salinity measurement feature to achieve automatic salinity & temperature compensation.
- Automatic air pressure correction with the help of air pressure sensor.
- Polarographic type DO electrode offers short polarization time, quick response and precise measurements.
- Automatic or Manual temperature Compensation.
- 3 point pH calibration.
- Buffers selectable from 1.68pH, 4.00pH, 4.01pH, 6.86pH, 7.00pH, 9.18pH, 9.20pH. 10.01pH and 12.45pH
- · Automatic buffer recognition.
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- Single and continuous print out of measuring parameters.
- Multiple Printout types. Combinations selectable from Sr. No., pH, mV, DO, date, time and temperature.
- · Real Time Clock.
- Calibration report as per GLP requirements.
- Electrode Slope and mV offset display.
- LCD display with Backlight.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.

Specifications:

pH Range : -2.0000~19.999pH mV Range : ±1999.9mV

DO Range : 0~40.00mg/L(ppm), 0~200.0%

Temperature Range : $-10.0 \sim 110.0^{\circ}$ C pH Accuracy : ± 0.002 pH mV Accuracy : ± 0.5 mV DO Accuracy : ± 0.10 mg/L Temperature Accuracy : $\pm 0.4^{\circ}$ C ATC pH : $0^{\sim}100^{\circ}$ C ATC DO : $0^{\sim}45^{\circ}$ C

pH Electrode : pH combination electrode-EpHG03 Temperature Electrode : Temperature sensor electrode- ETS01

DO Electrode : DO electrode-EDO01 Standard Accessories : Magnetic Stirrer MS-01

Meter Weight : 700 g

Conductivity / Dissolved Oxygen-CCDO ms, µs, mg/L, ppt, ppm, %, °C



Features

- Conductivity, Resistivity, TDS, Salinity, DO Temperature modes.
- Automatic or Manual temperature Compensation.
- 1 point conductivity calibration for the entire range.
- Dissolved oxygen electrode with the salinity measurement feature to achieve automatic salinity & temperature compensation.
- Automatic air pressure correction with the help of air pressure sensor.
- Polarographic type DO electrode offers short polarization time, quick response and precise measurements.
- Bi directional RS232 interface. Baud rate selectable from 1200,2400,4800 and 9600.
- · Single and continuous print out of measuring parameters.
- Multiple Printout types. Combinations selectable from Sr. No., Conductivity, TDS, Salinity, DO, Date, time and temperature.
- · Real Time Clock.
- · Calibration report as per GLP requirements.
- LCD display with Backlight.
- Memory storage of 100 measurements.
- Data logging facility up to 500 results. Data logging interval selectable from 5S, 10S, 20S, 30S, 1M, 2M and 5M.
- Temperature calibration with respect to solution of known temperature.

Specifications:

Conductivity Range : 0~2000mS/cm spread into 6 ranges

0.00~20.00μS/cm, 20.0~200.0 μS/cm, 200~2000 μS/cm 2.00~20.00mS/cm, 20.0~200.0 mS/cm, 200~2000mS/cm(K=10)

Resistivity Range : $0^{-100M}\Omega cm$ TDS Range : $0^{-100g/L}$ Salinity Range : $0^{-100ppt}$

DO Range : 0~40.00mg/L(ppm), 0~200.0%

Temperature Range : $-10.0 \sim 110.0^{\circ}$ C Conductivity Accuracy : $\pm 0.5\%$ FS DO Accuracy : ± 0.10 mg/L Temperature Accuracy : $\pm 0.4^{\circ}$ C ATC Conductivity : $0^{\circ}50^{\circ}$ C ATC DO : $0^{\circ}45^{\circ}$ C Conductivity Electrode : ECNG01

Temperature Electrode: Temperature sensor electrode- ETS01

Standard Accessories : Magnetic Stirrer MS-01

: ED001

Meter Weight : 700 g

DO Electrode



ELECTRODES

Contech offers wide range of electro chemical sensors for the measurement of pH, ORP, Conductivity, DO, different Ion Concentration and Temperature. Choosing a right electrode for the specific requirement is important and the following to be considered while deciding an electrode for the measurement: accuracy of measurement, electrode body, reference construction and junction. Electrodes need to be calibrated with standards for achieving proper results. Electrodes should be stirred end maintained as per instructions to enhance the performance and life.

ELECTROCHEMICAL ELECTRODES I

Electrode	Model	Specifications	Details	Application	
pH combination - Plastic	EpHP01	Plastic housing, Ceramic Junction, 0~80°C Temp. range, BNC: Connector Size: 12Ø x 160mm	Retention of accuracy for continuous measurement	General lab application. Not suitable for high alkaline chemicals (pH>12)	СОПТЕСН
pH combination with built in temperature sensor	EpHP02	Plastic housing, Ceramic Junction, 0~80°C Temp. range, BNC(pH) + Ø 3.5mm, 2 cores(temp) Connector, Size: 12 Ø x160mm	Retention of accuracy for continuous measurement, collision resistant	Simultaneous measurement of pH & temp & automatic temp. correction	соптесн
pH combination - Glass	EpHG03	Glass housing 0~90°C Temp. range, glass ground joint Junction, BNC Connector, Size: 12 Ø x160 mm	For high accuracy measurement	Suitable for low ionic strength or high viscosity solvents, ideal for colloidal or feculent solvents	- соптекн
Conductivity	ECNG-01	0.5 μS / cm - 200μS /cm range, 1.0+0.2 cm-1 constant, BNC Connector, Size : 12 Ø x155mm, 5x7mm Pt plate sensitive element (coated with Pt black)	Cavity structure high precision and better repeatability	High precision conductivity measurement in lab	соптесн
Temperature Sensor	ETS-01	-10 ~ 110° C, 5 Ø x 145mm, Customized Connector	Stainless steel material, Platinum resistor Pt-100	High precision temperature measurement	-
Dissolved Oxygen with built in temperature sensor	EDO-01	Polarographic, Size: 15 Ø X 180mm, polarization time: 3~5 mins mini round shell connector	Easily removable diaphragm cap. Set Consists of DO membrane, Inner solution, cathode polish paper	Measurement of dissolved oxygen with built in air pressure compensation & salinity correction	
ORP Combination Plastic	EORP-01	Plastic housing, Ceramic Junction, BNC : Connector, Sensitive element : 1mm Ø x5mm Pt pin, Size : 12 Ø x160 mm	Plastic housing, No KCl refilling requirement	Common solution and waste water	соптесн

REFERENCE ELECTRODES

Model	Specifications	Reference Solution	Application	
ERG 01	Material : Glass, Junction : Ceramic, Ref. Electrode : Ag/AgCl, Size : Ø 12x155mm	3.5mol/L KCI,	Reference for Fluoride measurement	-
ERG 02	Material : Glass, Junction : Ceramic, Ref. Electrode : Ag/AgCl, Size : Ø 12x155mm	1 st salt bridge 0.1mol/L KCl 2 nd salt bridge 0.1mol/L CsCl	Reference for Sodium measurement	
ERG 03	Material : Glass, Junction : Ceramic, Ref. Electrode : Ag/AgCl, Size : Ø 12x155mm	1st salt bridge 3.5mol/L KCI 2 nd salt bridge solution (optional)	Reference for Chloride, Bromide, Iodide, Copper, Potassium, Nitrate Ion measurement	-
ERG 04	Material : Glass, Junction : Ceramic, Ref. Electrode : Ag/AgCl, Size : Ø 12x155mm	1 st salt bridge 3.5mol/L KCI 2 nd salt bridge solution (optional)	Matching multiparameters	



Specifications:

ION Electrode	Description	Sensitive Film	Measuring range	Temp. range	Dimension	Reference Electrode
EINaG01	Na Electrode	Glass film	1~6pNa (10 ⁻¹ ~10- ⁶ mol/L)	15~45 C	Dia 12x150mm	ERG02
EINaG02	Low Na [†] Electrode	Glass film	1~7pNa (10 ⁻¹ ~10 ⁻⁷ mol/L)	15~45°C	Dia 12x150mm	ERG02
EICaP01	Ca ²⁺ Combination Electrode	PVC film	1~5pCa (10 ⁻¹ ~10 ⁻⁵ mol/L)	5~60 °C	Dia 12x15 5mm	0444
EICaP02	Ca ²⁺ /Mg ²⁺ Electrode	PVC film	1~5pCa/Mg (10 ⁻¹ ~10 ⁻⁵ mol/L)	5~60°C	Dia 12x15 5mm	
EIFC01	F ⁻ electrode	Single crystal film	1~6pF (10 ⁻¹ ~10 ⁻⁶ mol/L)	5~45 °C	Dia 12x145mm	ERG01
EICIP01	Cl ⁻ electrode	Solid film	1~4.3pCl (10 ⁻¹ ~5x10 ⁻⁵ mol/L)	5~60 ∘C	Dia 12x145mm	ERG03
EIBrP01	Br ⁻ electrode	Solid film	1~5.3pBr (10 ⁻¹ ~5x10 ⁻⁶ mol/L)	5~60 °C	Dia 12x145mm	ERG03
EIIP01	I ⁻ electrode	Solid film	1~6.3pl (10 ⁻¹ ~5x10 ⁻⁷ mol/L)	5~60 °C	Dia 12x145mm	ERG03
EICuP01	Cu ²⁺ electrode	Solid film	1~6.3pCu (10 ⁻¹ ~5x10 ⁻⁷ mol/L)	5~60 °C	Dia 12x145mm	ERG03
EIKP01	K ⁺ electrode	PVC film	1~5pK (10 ⁻¹ ~10 ⁻⁵ mol/L)	5~60 °C	Dia 12x145mm	ERG03
EINOP01	NO ₃ electrode	PVC film	1~5pNO ₃ (10 ⁻¹ ~10 ⁻⁵ mol/L)	5~60 °C	Dia 12x145mm	ERG03
EINHG01	NH ₄ ⁺ electrode	Gas Sensing glass film	1~5.3pNH ₄ (10 ⁻¹ ~5x10 ⁻⁶ mol/L)	5~45 °C	Dia 16x140mm	

ACCESSORIES

Magnetic Stirrer MS-01

Stirring speed : 0~2300 rpm at no load.

Base Diameter : 120mm : 1000ml Maximum stirring capacity Power supply : 6V DC Adaptor

Dimension : 120 dia x 50mm height

: 500 gms. Meter Weight



Electrode Holder EH-01

Dimensions (mm) :115(L) x 35(W) x 28(H)

Weight : 22 g

Suitable for Electrode: Dia 13mm~16mm



Printing Method : Thermal Character Type : Alpha Numeric Character per Line: 30 max. Communication : RS 232 **Baud Rate** : 9600 **Printing Speed** : 90mm per sec.

Paper Width : 57mm Paper Cutting : Manual **Power Supply** : 8v,3A DC

Dimension (mm) : 135(L) x 195(D) x 100(H)

Paper Width : 57mm

Printing Speed : 90mm per sec.

Dimensions (mm) : 135(L) x 195(D) x 100(H)

Net Weight : 800g approx.

Power Supply SMPS-04

: 100~300 V AC, 47-63 Hz Input

: 9VDC, 500mA Output Dimensions with pin (mm) : $50(L) \times 70(H) \times 70(D)$ Dimensions without pin (mm): 50(L) x 70(H) x 37(D)



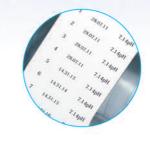




SB-01

Dimensions: 27(L) x 10(W) x 6(H)

Weight : 5g





Battery Backup BBEC-01

100~300 V AC, 47-63 Hz Input

Output 9VDC, 500mA 6V, 1.2 Ah Battery

600g Weight

Deminsions: 150(L) x 65 (w) x 40(H)



Calibration Solutions

Solution	Corresponding Electrode	Description	Accuracy	
CSpH 4.0		pH 4.0	± 0.1 pH	
CSpH 7.0	рН	pH 7.0	± 0.1 pH	
CSpH 9.2	6011	pH 9.2	± 0.1 pH	
CSCN 1413	Conductivity	1413 μs/cm	±0.5%	





Where innovation never stops ...





Melting Point

Apparatus

Coal/Flue/Bio

Gas Analyzer

XRF Gold Purity

Tester

Digital Polarimeter Digital Abbe Refractometer

State Of The Art Manufacturing Plant

Plot No. EL-221 TTC Indl. Area, MIDC (Electronic Zone), Mhape, Navi Mumbai-400 701.

CONTECH INSTRUMENTS LTD.

301, Punit Indl. Premises, Turbhe Naka, Navi Mumbai - 400 705.

Tel.:+91 22 2761 1176 / 77 / 78 / 79 / 80, 2761 8431, 3245 9901 / 02 / 06 / 18 Fax:+91 22 2761 8421

E-mail: info@contechindia.in / sales@contechindia.in

ail: info@contechindia.in / sales@contechindia.inWebsite: www.contechindia.com