




## 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

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)	
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	
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	
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	
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	

### REFERENCE ELECTRODES

Model	Specifications	Reference Solution	Application	
ERG 01	Material : Glass, Junction : Ceramic, Ref. Electrode : Ag/AgCl, Size : Ø 12x155mm	3.5mol/L KCl,	Reference for Fluoride measurement	
ERG 02	Material : Glass, Junction : Ceramic, Ref. Electrode : Ag/AgCl, Size : Ø 12x155mm	1 <sup>st</sup> salt bridge 0.1mol/L KCl 2 <sup>nd</sup> 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 KCl 2 <sup>nd</sup> 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 <sup>st</sup> salt bridge 3.5mol/L KCl 2 <sup>nd</sup> salt bridge solution (optional)	Matching multiparameters	