

## General Use Plastic and Glass ORP Electrodes



**PERFORMANCE SPECIFICATIONS**  
ORP Range: +/- 2000mV

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Choice of Extended Rod or Band Type Platinum

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Silver or Gold Versions Available

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Combination or Half Cell Designs

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Single or Double Junction Construction

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Choose between Sealed and Re-fillable Models

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Choose between Glass and Plastic Body Models

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### Which material and configuration should I chose?

Sensorex makes both types-- separate ORP and reference or combination ORP. The convenience of handling one combination electrode as compared to using separate ORP and reference electrodes has been well established in laboratory and portable ORP measurements. And since the price of Sensorex combination electrodes is much less than the total price of the separate electrodes, separate electrodes are used only for special purposes.

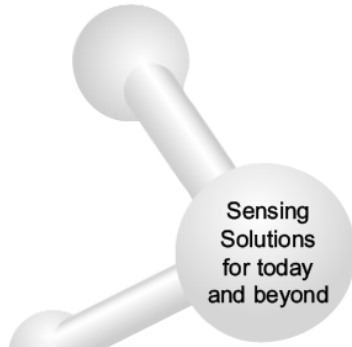
Sensorex utilizes 99.993% pure platinum rod to ensure no that there are no impurities in the platinum that could cause adverse reactions in measurements.

### Glass or Plastic Body Electrodes?

Sensorex makes both body types and they provide the identical excellent ORP measurements. Today's plastics allow ORP electrodes to be constructed with sturdy and chemically resistant epoxy or premium ULTEM bodies. Glass bodies for extra chemical resistance are also available.

### Single or Double Junction Reference?

Most ORP measurements can be made with single junction reference electrodes. However, materials such as heavy metals and sulfides can precipitate at the junction. Double junction designs use a buffering salt such as  $\text{KNO}_3$  in the lower chamber contacting the sample, and prevent these reactions. Both combination or separate reference electrodes are available from Sensorex ( See LabSpecs) .



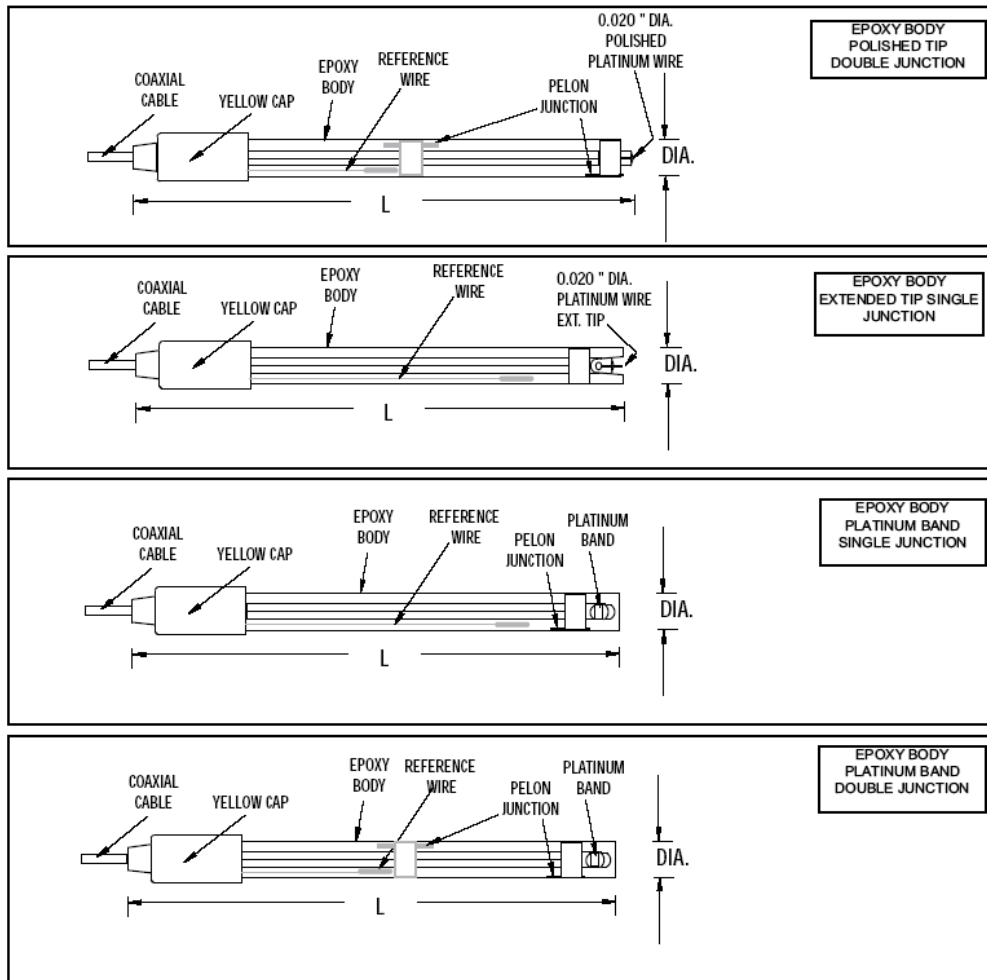
How do I choose the appropriate laboratory ORP electrode for my use?

OR: Select by electrode type you currently use:

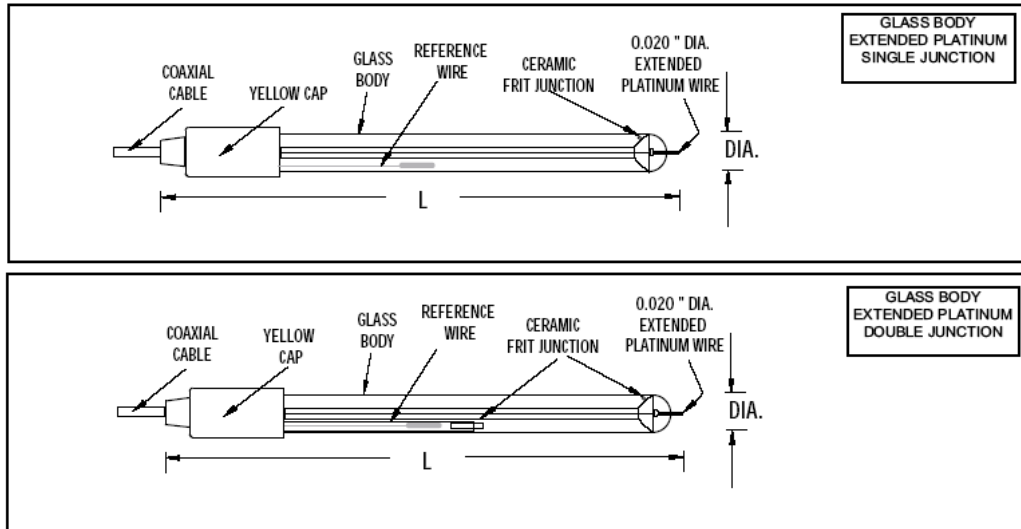
- a) Platinum, Silver, or Gold
- b) Polished tip, extended tip or band type
- c) Sealed or re-fillable reference
- d) Epoxy or glass body
- e) Dimension required Length and diameter
- e) Separate ORP half-cell/separate reference half -cell

<b>Product Guide Lab ORP (Redox)</b>				
<b><i>Application</i></b>	<b><i>Sensorex Part Number</i></b>			
	<b>Glass Body- Ext tip only</b>	<b>Epoxy Body- polished tip</b>	<b>Epoxy body - Extended tip</b>	<b>Epoxy Body- Band tip</b>
Standard Laboratory use	SG500C-ORP	S500C-ORP	970884	S510C-ORP
Field Use	Epoxy a better choice	S500CD-ORP	970884D	S510CD-ORP
Low Ionic conditions	Inquire	970479	Not available	Not available
Test tubes and small diameters	Inquire	S900C-ORP	Not available	Not available
Tall flasks and reactors	Inquire	S300C-ORP	Not available	Not available
Mixed aqueous/organic solvents	Inquire	Not recommended	Not recommended	Not recommended
Samples with heavy metals	SG500CD-ORP	S500CD-ORP	970884D	S510CD-ORP
Soil Samples	Not recommended	S500CD-ORP	970884D	S510CD-ORP
Strong reducing agents (cyanide,...)	Inquire	970553 (gold measuring surface)	Not available	Not available

## EPOXY BODY COMBINATION ORP ELECTRODES



## GLASS BODY COMBINATION ORP ELECTRODES



Ordering Information			
Model Number	Dimensions (L x dia.)	Measuring Surface	Junction Type
S500C-ORP	6" (150mm) x 1/2" (12mm)	Platinum Polished Rod	Single Junction
S500CD-ORP	6" (150mm) x 1/2" (12mm)	Platinum Polished Rod	Double Junction
970884	6" (150mm) x 1/2" (12mm)	Platinum Extended Tip	Single Junction
970884D	6" (150mm) x 1/2" (12mm)	Platinum Extended Tip	Double Junction
S510C	6" (150mm) x 1/2" (12mm)	Platinum Band	Single Junction
S510CD	6" (150mm) x 1/2" (12mm)	Platinum Band	Double Junction
970553	6" (150mm) x 1/2" (12mm)	Gold Polished Rod	Double Junction

Note: All electrodes are supplied with 30" cable standard. Please specify connector type when ordering.