

# Sensorex New "Calomel Free" Epoxy and Glass Body pH and Reference Electrodes




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**Fast Response...No Silver Ion Contamination**

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**Use in Place of Calomel pH and Reference Electrodes**

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**Combination Triple Junction Design**

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**Uses No Hazardous Calomel Based Material (MERCURY-FREE!)/RoHS compliant**

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**Sealed and Refillable Models**

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**Glass and Epoxy Body Models**

## ***Calomel Free pH electrodes!***

The performance of a Calomel electrode is now available without the hazardous Mercury associated with the design. The "Calomel Free" design features an Ag/AgCl based double junction reference with a unique *silver ion trap* acting as a third junction to impede any silver ion contact with the sample. Reference output is adjusted to deliver the same output as a Calomel electrode using a silver chloride reference.

## **Specifications**

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**pH Range** 0-14 (Na+ error >12.3 pH)

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**Speed of Response** 95% in 1 second

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**Isopotential Point** pH 7.00 (0 mV)

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**Offset** +/- 0.20 pH

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**Span** 97% or higher

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**Temperature Range** 0 - 60 Degrees C

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**Cable Length** 30" (0.76 m)

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**Connectors** BNC for combination ("CIT"),  
2mm pin for reference ("RIT")

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## ***Glass or Plastic Body Electrodes!***

Traditionally, pH electrodes have been made of all glass construction. However, today's thermoplastics are able to construct pH electrodes with durable and chemically resistant bodies to reduce any breakage. The protected design of the plastic body electrode extends over the measuring surface, making the pH glass bulb virtually unbreakable.

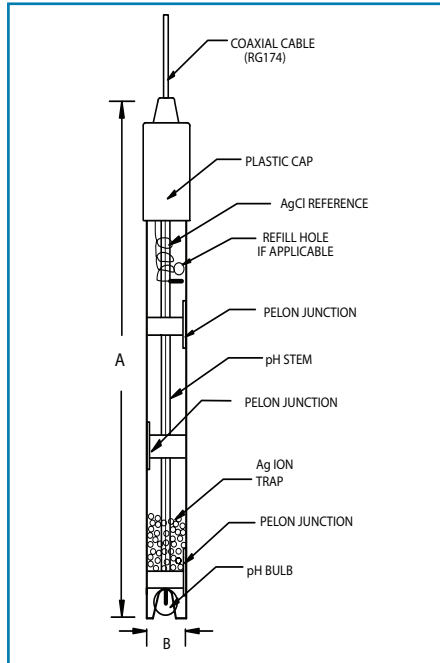
## ***Sealed vs. Refillable Reference!***

Both sealed and refillable styles are available. Sealed references are gel-filled and maintenance free while refillable designs extend electrode life by having a refillable reference electrolyte.

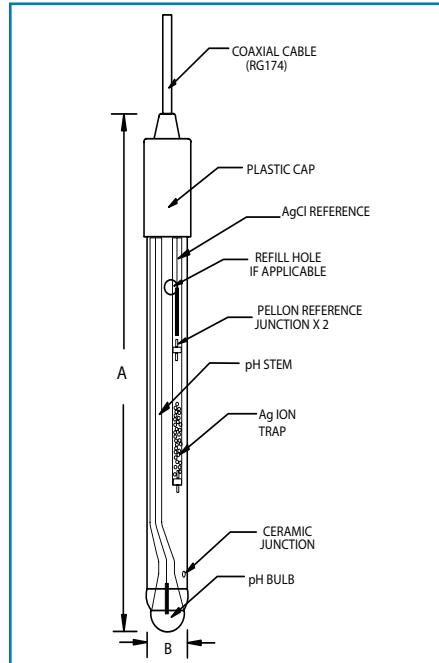
**Parts covered by this product data sheet include:**  
S200CIT, SG200CIT, S201CIT, SG201CIT, S300CIT, SG300CIT,  
S900CIT, SG900CIT, S200RIT, SG201RIT

# Sensorex New "Calomel Free" Epoxy and Glass Body pH Electrodes

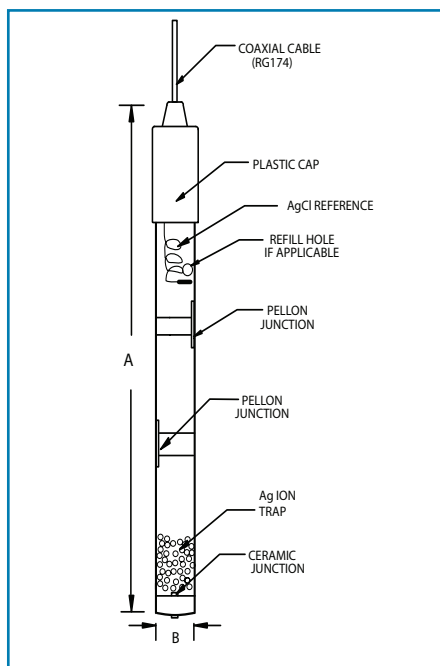
**S200CIT, S201CIT,  
S300CIT, S900CIT**



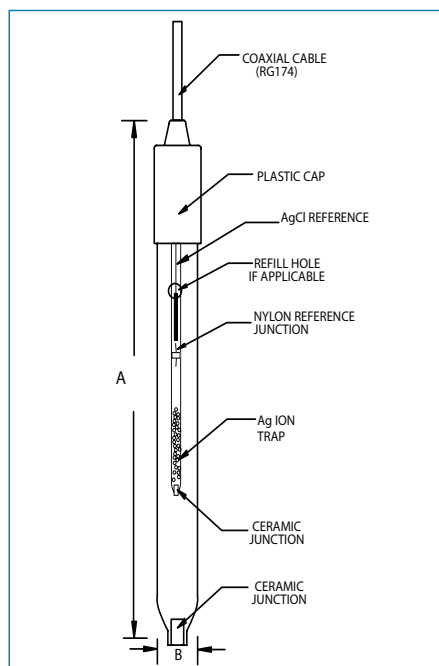
**SG200CIT, SG201CIT,  
SG300CIT, SG900CIT**



**S200RIT**



**SG200RIT**



Dimension Key	
1	A=150mm x B=12mm
2	A=300mm x B=9.5mm
3	A=150mm x B=6mm

# Sensorex New "Calomel Free" Epoxy and Glass Body pH Electrodes

## ORDERING INFORMATION

### pH Electrodes

Part No.	Size	Dimension (see page 2)
S200CIT	12mm x 150mm Plastic Sealed Reference	1
SG200CIT	12mm x 150mm Glass Sealed Reference	1
S201CIT	12mm x 150mm Plastic Re-fillable Reference	1
SG201CIT	12mm x 150mm Glass Re-fillable Reference	1
S300CIT	9.5mm x 300mm Plastic Sealed Reference	2
SG300CIT	9.5mm x 300mm Glass Sealed Reference	2
S900CIT	6mm x 150mm Plastic Sealed Reference	3
SG900CIT	6mm x 150mm Glass Sealed Reference	3

### Reference Electrodes

Part No.	Size	Dimension (see page 2)
S200RIT	12mm x 150mm Plastic Sealed Reference only	1
SG201RIT	12mm x 150mm Glass Refillable Reference only	1

### Accessories

Part No.	Description	Quantity
S21	Refill/storage solution for Calomel-Free electrodes	4 oz.



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