

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



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

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

**Combination Triple Junction Design**

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

**Sealed and Refillable Models**

**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**

|                           |                           |
|---------------------------|---------------------------|
| <b>pH Range</b>           | 0-14 (Na+ error >12.3 pH) |
| <b>Speed of Response</b>  | 95% in 1 second           |
| <b>Isopotential Point</b> | pH 7.00 (0 mV)            |
| <b>Offset</b>             | +/- 0.20 pH               |
| <b>Span</b>               | 97% or higher             |
| <b>Temperature Range</b>  | 0 - 60 Degrees C          |

## ***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

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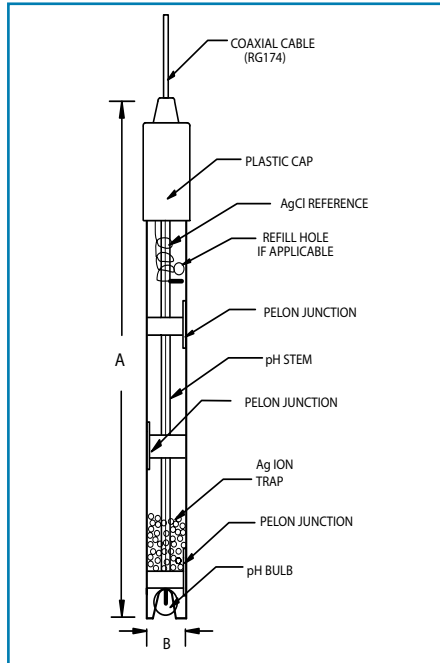
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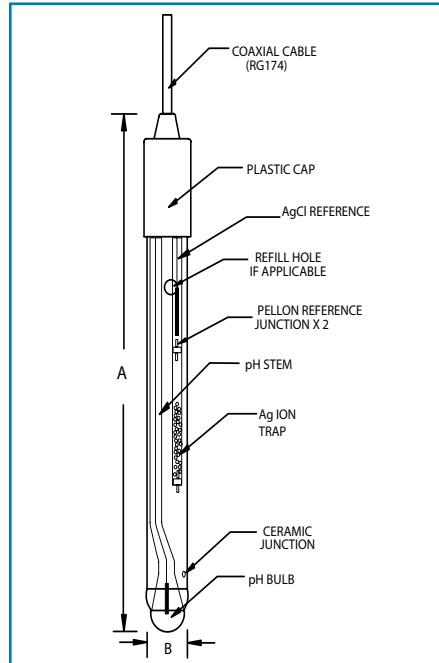
Form: SpecsCalomelFree3 [Rev: 2011-09-09]  
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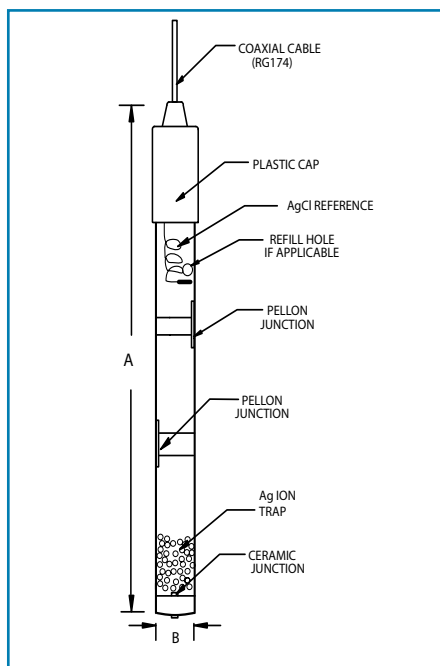
**S200CIT, S201CIT,  
S300CIT, S900CIT**



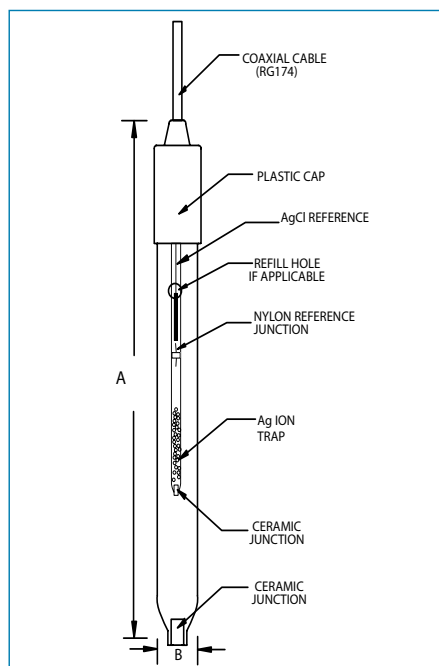
**SG200CIT, SG201CIT,  
SG300CIT, SG900CIT**



**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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