Laboratory/General Use
Plastic and Glass ORP Electrodes

Choice of extended rod or high surface area

Silver or gold versions available

Combination or half cell designs

Single or double reference junction

Sealed or refillable junctions

Glass or plastic bodies

Which material and configuration should I choose?
Sensorex makes both types—separate ORP half cells and combination ORP electrodes. 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 to ensure there are no impurities in the platinum that could cause adverse reactions or interferences in ORP measurements

Glass or Plastic Body Electrodes?
Sensorex makes both body types, and they both provide identical excellent ORP measurements. Today's plastics allow ORP electrodes to be constructed with sturdy and chemically resistant epoxy or premium ULTEM bodies. A recessed protected design of the Sensorex plastic body electrodes extends over the extended tip or band measuring to ensure that the surface will not be damaged.

Single or Double Junction Reference?
Most ORP measurements can be made with single junction reference electrodes. However, materials such as heavy metals, proteins and sulfides can precipitate at the junction. Double junction designs use a buffering salt such as KNO3 in the lower chamber contacting the sample, and prevent these reactions.   For separate reference half cells, see LabSpecs.
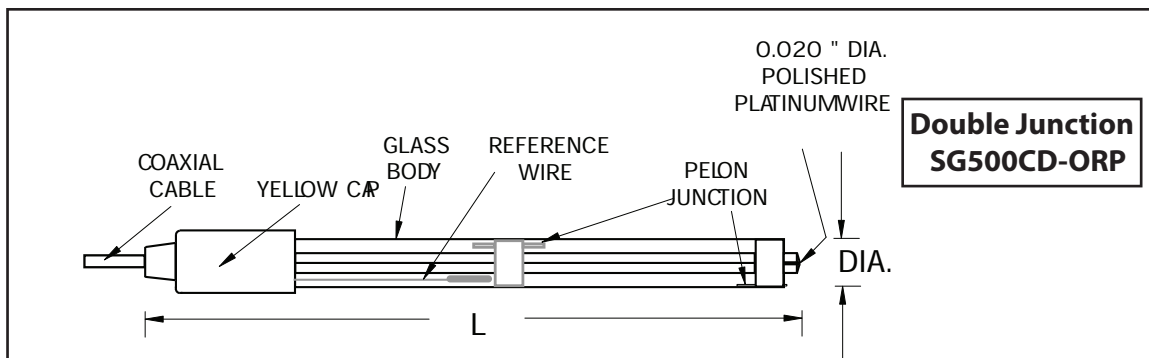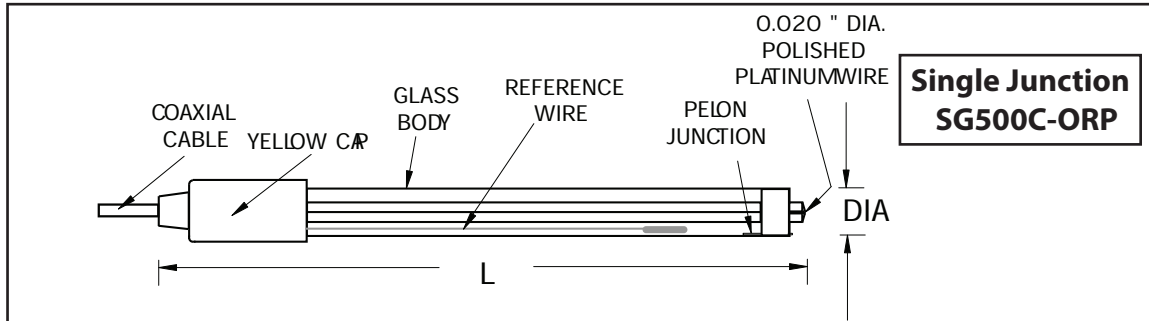
Specifications

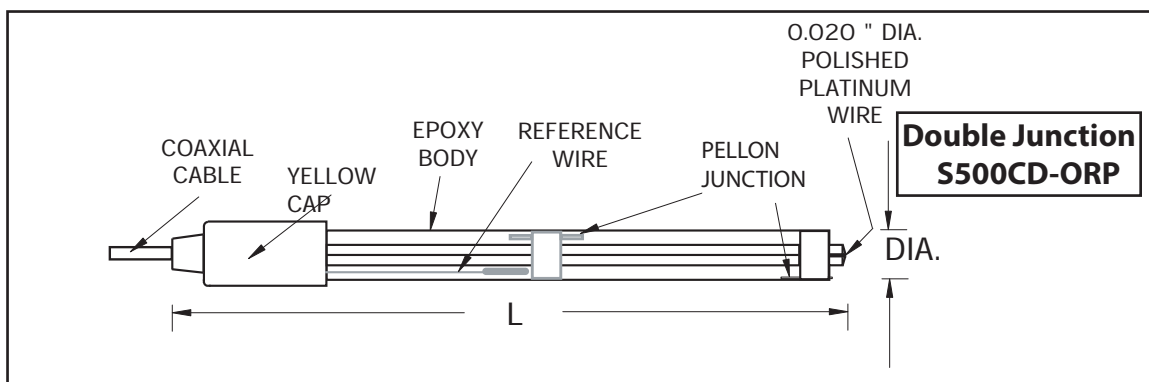|	
Wetted Materials	Epoxy (body), Glass, Platinum, Gold or silver (special versions)
Range of Measurement	+/-2000mV or range of ORP meter
Temperature/Pressure Max	176F(80C)/50psig(3.4bar)
Cable Length	39" (1m)

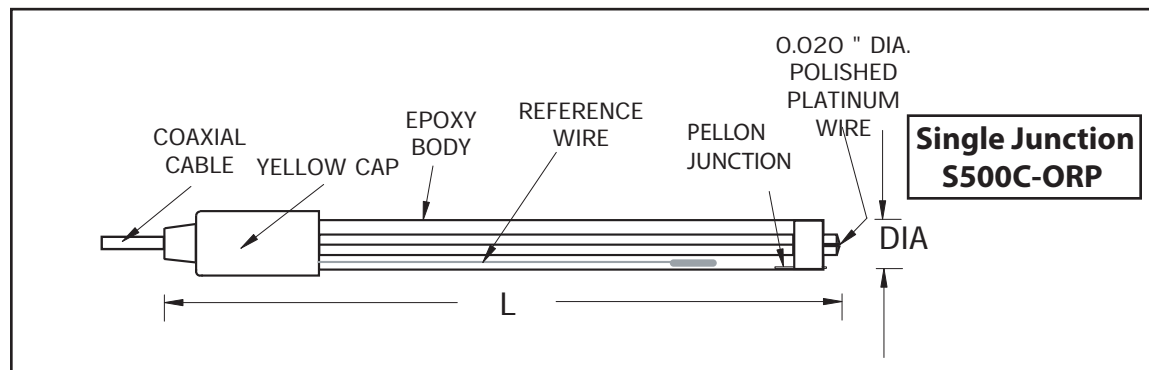**Parts covered by this product data sheet include:**
Model # SG500C-ORP, SG500CD-ORP, S500C-ORP, S500CD-ORP,
S550C-ORP, S550CD-ORP, S555C-ORP, S555C-ORP-AU, S555CD-ORP,
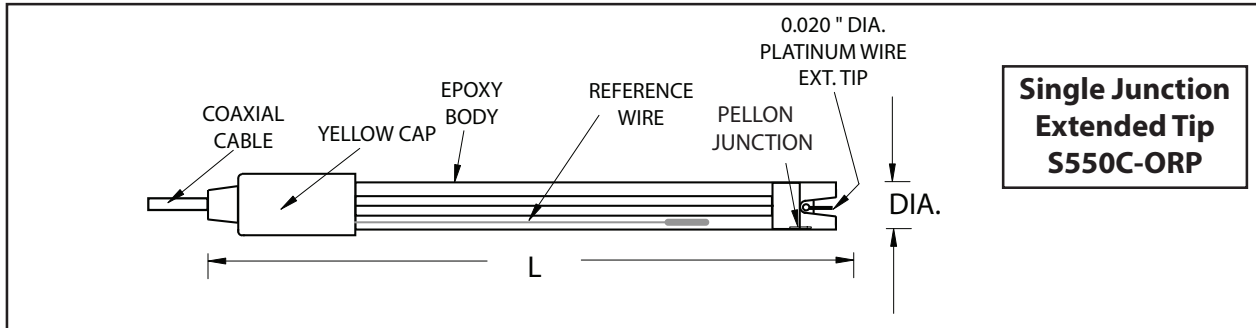S350CD-ORP, S450CD-ORP

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GLASS BODY COMBINATION ORP ELECTRODES

0.020 " DIA. POLISHED PLATINUMWIRE

Single Junction SG500C-ORP

COAXIAL CABLE YELLOW CAP GLASS BODY REFERENCE WIRE PELON JUNCTION DIA L

0.020 " DIA. POLISHED PLATINUMWIRE

Double Junction SG500CD-ORP

COAXIAL CABLE YELLOW CAP GLASS BODY REFERENCE WIRE PELON JUNCTION DIA. L

EPOXY BODY COMBINATION ORP ELECTRODES

0.020 " DIA. POLISHED PLATINUM WIRE

Single Junction S500C-ORP

COAXIAL CABLE YELLOW CAP EPOXY BODY REFERENCE WIRE PELLON JUNCTION DIA L

0.020 " DIA. POLISHED PLATINUM WIRE

Double Junction S500CD-ORP

COAXIAL CABLE YELLOW CAP EPOXY BODY REFERENCE WIRE PELLON JUNCTION DIA. L

EPOXY BODY COMBINATION ORP ELECTRODES (cont.)

COAXIAL CABLE — YELLOW CAP — EPOXY BODY — REFERENCE WIRE — PELLON JUNCTION — 0.020 " DIA. PLATINUM WIRE EXT. TIP — DIA. — L

Single Junction Extended Tip S550C-ORP

COAXIAL CABLE — YELLOW CAP — EPOXY BODY — REFERENCE WIRE — PELLON JUNCTION — 0.020 " DIA. PLATINUM WIRE EXT. TIP — DIA. — L
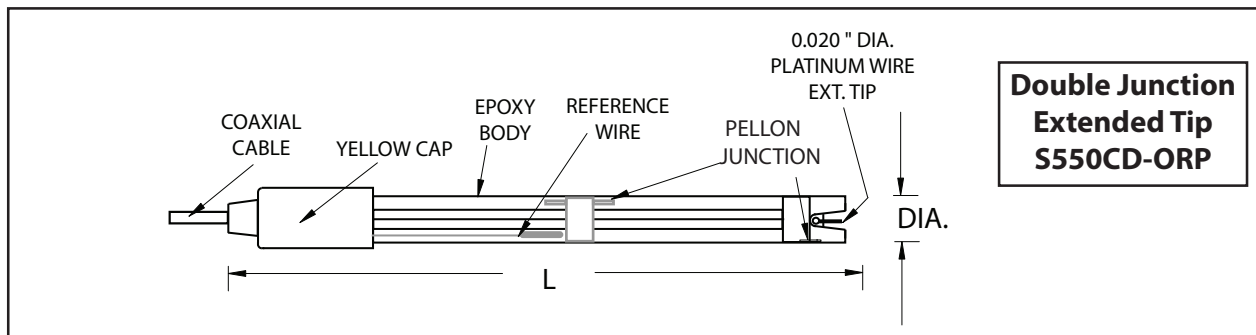
Double Junction Extended Tip S550CD-ORP

COAXIAL CABLE — YELLOW CAP — EPOXY BODY — REFERENCE WIRE — PELON JUNCTION — HIGH SURFACE AREA PLATINUM TIP — DIA. — L

*** GOLD ALSO AVAILABLE*
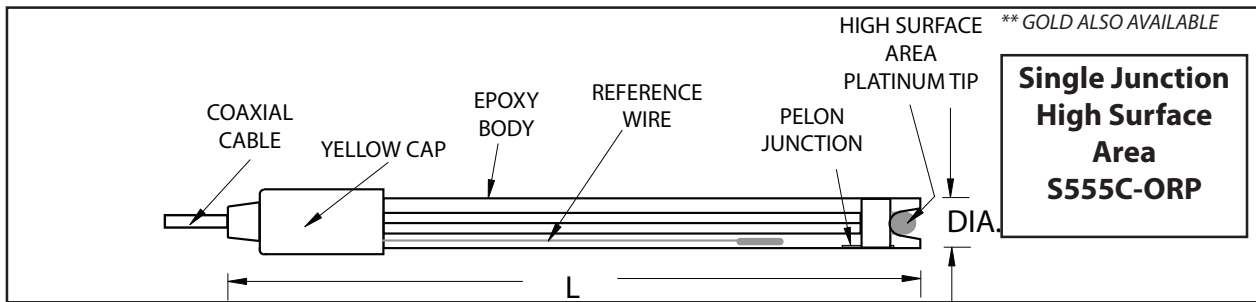
Single Junction High Surface Area S555C-ORP

COAXIAL CABLE — YELLOW CAP — EPOXY BODY — REFERENCE WIRE — PELON JUNCTION — HIGH SURFACE AREA PLATINUM TIP — DIA. — L

*** GOLD ALSO AVAILABLE*
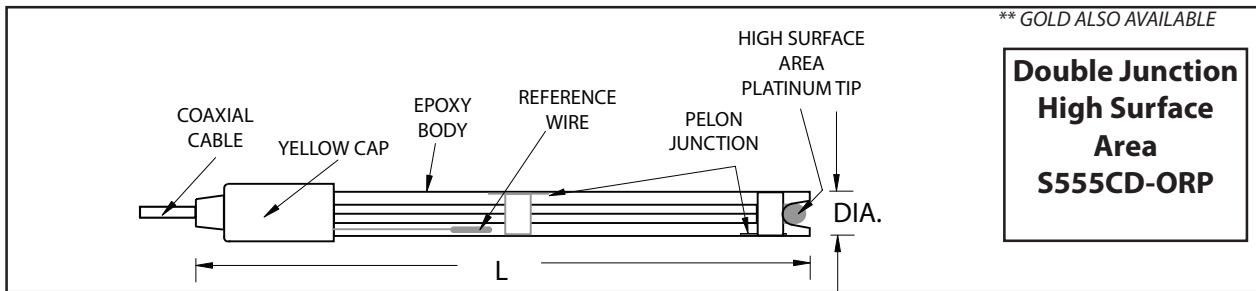
Double Junction High Surface Area S555CD-ORP

COAXIAL CABLE — BLACK CAP — BLACK EPOXY BODY — REFERENCE WIRE (NOT VISIBLE) — POROUS HDPE REF. JUNCTION — DIA. — 0.020 " DIA. POLISHED PLATINUM WIRE — L
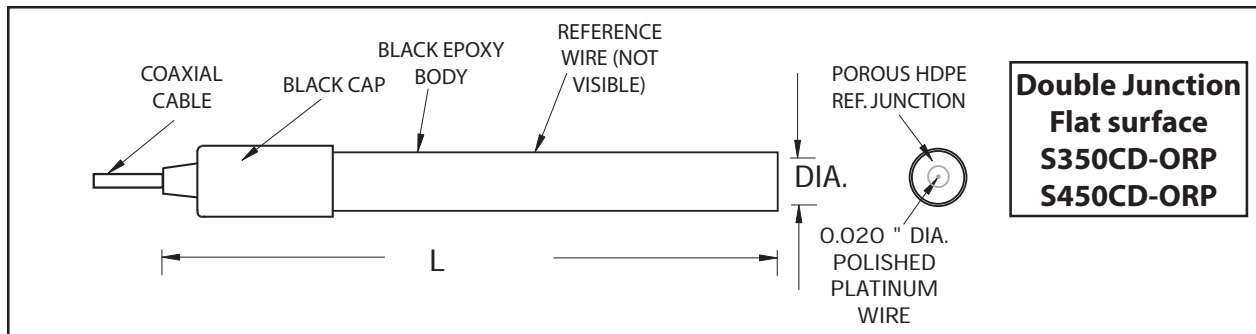
Double Junction Flat surface S350CD-ORP S450CD-ORP

How do I choose the appropriate ORP laboratory/portable electrode for my use?
OR: Select by electrode type you currently use:

- a) Platinum, silver or gold
- b) Polished tip, exposed rod or high surface area
- c) Sealed or re-fillable reference
- d) Epoxy or glass body
- e) Dimension required Length and diameter
- f) Separate ORP half-cell/separate reference half-cell(see LabSpecs for reference half cells)

Product Guide Lab ORP (Redox)

Ordering Information

Model Number	Dimensions (L x Dia.)	Measuring Surface	Junction Type
S500C-ORP	6" (150mm) x ½" (12mm)	Platinum Polished Rod	Single Junction
S500CD-ORP	6" (150mm) x ½" (12mm)	Platinum Polished Rod	Double Junction
S550C-ORP*	6" (150mm) x ½" (12mm)	Platinum Extended Tip	Single Junction
S550CD-ORP*	6" (150mm) x ½" (12mm)	Platinum Extended Tip	Double Junction
S555C-ORP*	6" (150mm) x ½" (12mm)	High Surface Area Platinum	Single Junction
S555CD-ORP*	6" (150mm) x ½" (12mm)	High Surface Area Platinum	Double Junction
S350CD-ORP	6" (150mm) x ½" (12mm)	Platinum flat	Double Junction - HDPE
S450CD-ORP	4.5"(115mm) x 5/8" (15mm)	Platinum flat	Double Junction - HDPE
SG500C-ORP	6" (150mm) x ½" (12mm)	Platinum Polished Rod	Single Junction
SG500CD-ORP	6" (150mm) x ½" (12mm)	Platinum Polished Rod	Double Junction
S300C-ORP	12"(300mm) x 3/8" (9mm)	Platinum Extended Tip	Single Junction
S300CD-ORP	12"(300mm) x 3/8" (9mm)	Platinum Extended Tip	Double Junction

Note: All electrodes are supplied with 1m cable standard. Please specify connector type when ordering.   * Gold versions also available. Contact Sensorex for details.

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