



Phase Zero Sensors

Phase Zero Sensors support early stage development in the design of an assay for measurement of electrochemical signals between test fluids (bodily or otherwise) and a targeted analyte via potentiostat. These high quality sensors are necessary tools for early stage development projects, enabling scientists and lab technicians to devise testing protocols for identifying electrochemical responses. They support iterative testing of reagent mixtures used in the detection of unique analytes within biological samples.

These sensors have a PET substrate, with carbon or gold (Au) working and counter electrodes, and a silver/silver chloride (Ag/AgCl) reference electrode along with a printed insulating dielectric. The mating trace leads are designed to interface with common potentiostat accessories as well as banana plugs or alligator clips. The well walls are designed to contain fluids allowing for reagent deposition to perform testing.

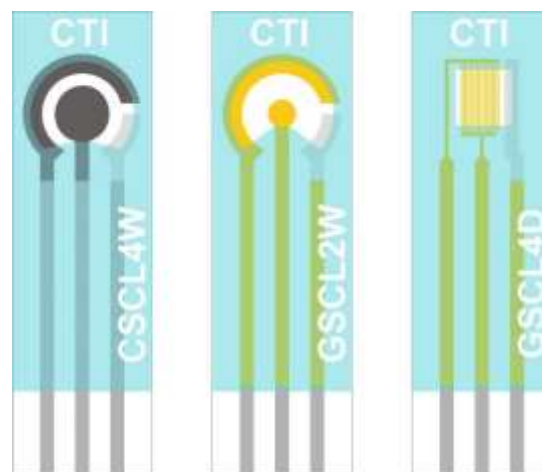
Sensor Type	Working Electrode	Counter Electrode	Reference Electrode	SKU
Standard	Ø4mm Carbon Screen Printed	Carbon Screen Printed	Ag/AgCl Screen-printed	CSCL4W
Standard	Ø2mm Au (gold) Ablated	Au (gold) Ablated	Ag/AgCl Screen-printed	GSCL2W
IDE [InterDigitated Electrode]	Au (gold) Ablated	Au (gold) Ablated	Ag/AgCl Screen-printed	GSCL4D

FEATURES

- Ablated and Screen Printed Electrodes
- Overall dimensions: 10mm x 33mm x 0.53mm
- Packed in vials of 25 sensors
- Substrate: White PET base layer
- Silver leads for a more robust connection
- Compatible with common potentiostats
- Customization and scale up available



Made in the USA



NOTE: Gold sensors plasma treated to help improve bonding of subsequent reagent coatings and improve bio-sensing characteristics.

OPTIONAL DEVELOPMENT SERVICES AND CAPABILITIES

CAPABILITIES

- Reagent Deposition
- Custom Sensor Design
- Micro-Fluidic Channels
- Double-Sided Printing
- Precious Metal Coatings & Thickness
- Lamination of Adhesives or Lidstock
- Laser Drilling, Etching, Singulation or Kiss-Cuts
- Sheets of Printed Sensors
- Sensor Testing and Qualification Reporting
- Packaging and Vialing
- Product Labelling and Identification
- Clean Room Assembly
- Large Scale Production



SERVICES

- Research and Development – Structured phase gate development, from feasibility to commercial scale-up.
- Prototyping – Rapid feasibility and enhancement of product concept for commercial release.
- Regulatory Assistance – Assist our customers with donor studies for their regulatory submissions.
- Contract Manufacturing – Providing for fast transitions out of development to full scale production.



Please contact us to discuss your project!



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