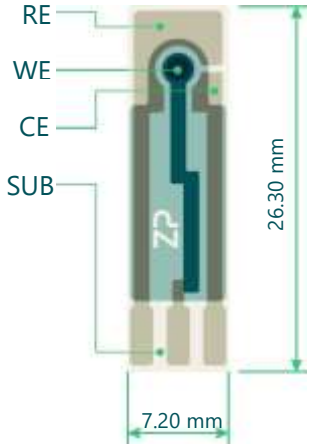
Technical Datasheet

501 PLATINUM



Sensor

REFERENCE ELECTRODE (RE)
Silver/Silver Chloride

WORKING ELECTRODE (WE)
Platinum

COUNTER ELECTRODE (CE)
Silver/Silver Chloride

SUBSTRATE (SUB)
PET

Dimensions

Length	26.30 ± 0.10 mm
Width	7.20 ± 0.10 mm
Substrate thickness	0.30 ± 0.02 mm
Thickness with print	0.35 ± 0.02 mm
Weight	0.088 ± 0.001 g

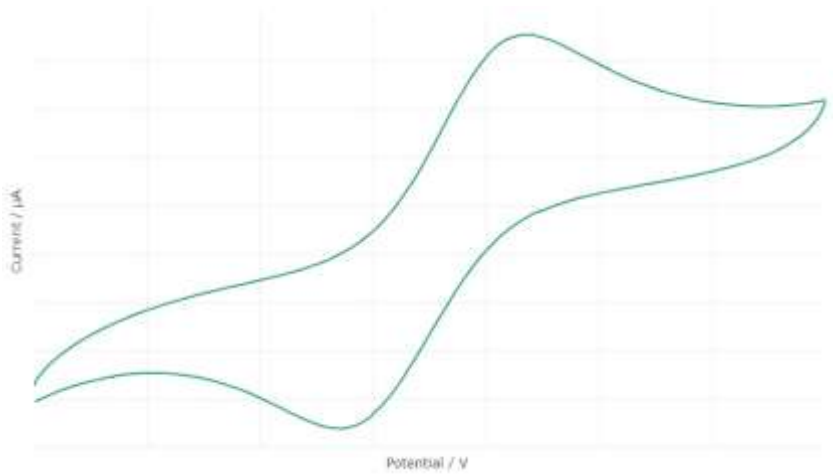
General description

Sensor Name:	501 Platinum
Sensor Product Code:	ZPS 501-000-00241
Revision number:	ZPS 501-008-00241 REV01

Production description

The 501 Carbon sensor is suitable for disposable applications, and continuous monitoring. The 501 geometry serves the objective of minimizing the working and reference electrode areas and maximizing the counter electrode area, while maintaining low variance. The working electrode is surrounded by a 15 µm thick dielectric, making a pocket in which to dispense the active chemistry.

Performance



For the best possible outcome, we recommend using the sensor with ZP supplied potentiostats and our on-cloud data management system, djuli.

Components and hazards

Ingredients to be disclosed according to regulations:

Component (CAS nr.)	Hazards classification	Weight percent [%]
Silver (7440-22-4)	H400, H410	1-5 %
Silver Chloride (7783-90-6)	H400, H410	1-5 %

Take caution when handling these sensors, as there might be sharp parts and hazardous chemicals. Use personal protective equipment. Handle with gloves.

Storage

Recommended storage temperature 2-25°C, 20-50% RH. Keep dark, protect from exposure to UV-light. Keep sensor container tightly closed in a dry and well-ventilated place. Proper storage of sensors requires the sensing area to be facing upwards, free from any contact or interference. Recommended shelf life of 1 year.

Disclaimer

This product is for research and development applications only. This product is not suitable for drug, food or household applications. Product is not tested for biocompatibility and ZP takes no responsibility for in-vivo usage. It is intended to be used in aqueous systems. Please contact ZP for discussing your intended application.

Take caution when handling the sensors, as there might be sharp parts and chemical hazards. Use personal protective equipment.

Developer note

Zimmer and Peacock can also make customized sensors with the option to target other analytes than those listed in respective datasheet. We can offer different electrode configurations, geometry, and materials. Sensors are also available as micro well and microfluidic cavity formats. Please contact us through the contact form on www.zimmerpeacock.com or by e-mail on sales@zimmerpeacock.com for questions regarding customized sensors.