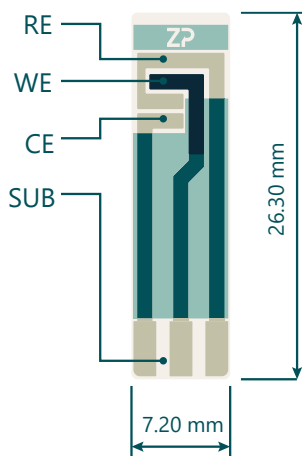


# CAFFEINE SENSOR



## Sensor

### REFERENCE ELECTRODE (RE)

Silver/Silver Chloride

### WORKING ELECTRODE (WE)

Carbon with analyte selective coating

### 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               | 0.087 ± 0.004 g |

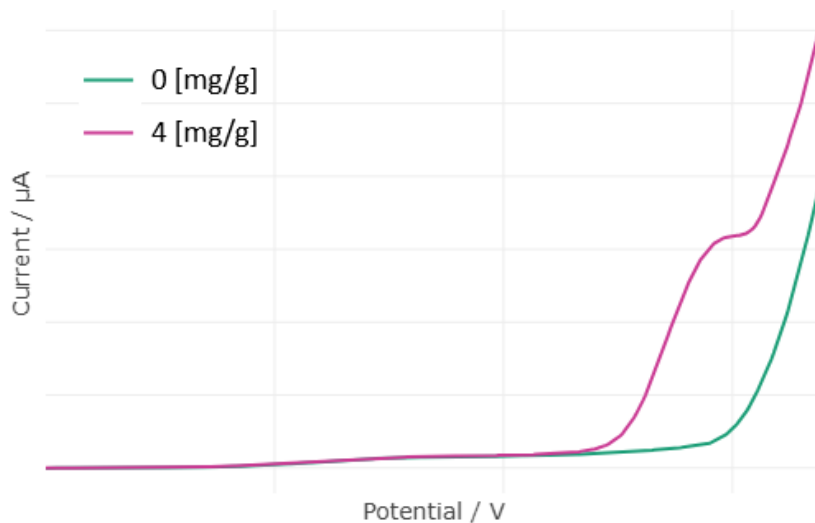
## General description

|                      |                        |
|----------------------|------------------------|
| Sensor Name:         | Caffeine Sensor        |
| Sensor Product Code: | ZPS CAF-000-00290      |
| Revision number:     | ZPS CAF-003-00290 v0.0 |

## Production description

Caffeine sensors suitable for disposable applications of measuring the caffeine concentration of coffee samples dissolved in ZP Caffeine buffer (ZPCH 400-000-00723).

## 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

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Ingredients to be disclosed according to regulations:

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

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

## Storage

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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

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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

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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](http://www.zimmerpeacock.com) or by e-mail on [sales@zimmerpeacock.com](mailto:sales@zimmerpeacock.com) for questions regarding customized sensors.