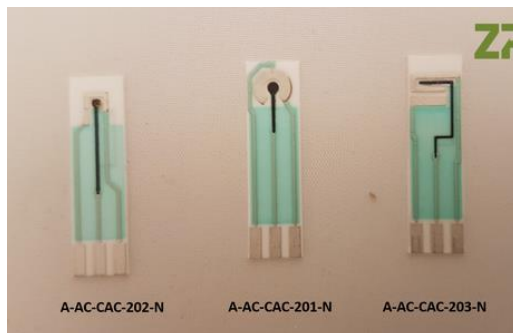


Technical Datasheet: Economy electrochemical sensors/biosensors

Product description

The Z&P sensors provide a quick and accurate way of determining concentrations of bio-relevant molecules. They can be delivered with chemically modified surfaces for plug-and-play chemical monitoring, or they can serve as a robust architecture for your research team's specific chemical modification. Their screen-printed nature allows for a wide selection of electrode materials and excellent reproducibility. The dimensions of the economy sensors provide a platform which lowers manufacturing costs while maintaining a handleable format. The third electrode double as counter or fill electrode, depending on the application.



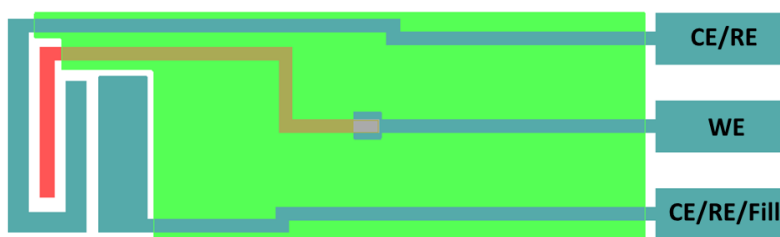
Key features

- Reusable
- High sensitivity
- Quick response
- Wide range of analytes (with the option of custom made)
- A variety of electrode configurations
- Different electrode materials
- Different electrode geometries
- Compatible with 2.54 mm pitch edge connectors

SPECIFICATIONS

Mechanical dimensions

L = 25.4 mm, W = 7 mm, T = 0.625 mm



Dimensions of C-ADGG-101-N sensor. All dimensions are in micrometers.

Storage Conditions

Temperature
Lighting
Physical protection
Expiration
Humidity

With modified surface

4-8 C°
Away from light
In container
Use before 3 months
50% RH ± 20% RH

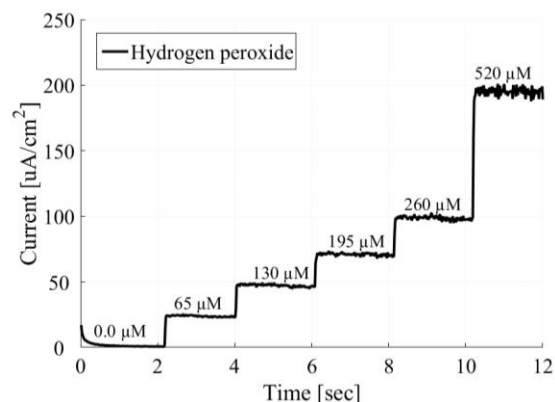
Bare electrodes

Room temperature
Away from light
In container
Use within two years
50% RH ± 20% RH

Sensor response and conditions

	Glucose	Lactate	Oxygen	Hydrogen peroxide
Range	2 – 40 mM	0.5 – 4 mM	0 – 6 ppm	1 – 520 μM
Settle time	1.5 min	1.5 min	3 min	<1 min
Beaker testing	✓	✓	✓	✓
Drop test	✓	✓	✓	✓
Flow mode	✓	✓	✓	✓

Typical response



ORDERING CODE

1	2	3	4	5	6	7
A	-	AC	P	AC	-	203

1. Substrate material:

A – Alumina 625 µm

2. Reference electrode material:

AC – Silver/Silver Chloride
P – Platinum

3. Working electrode material:

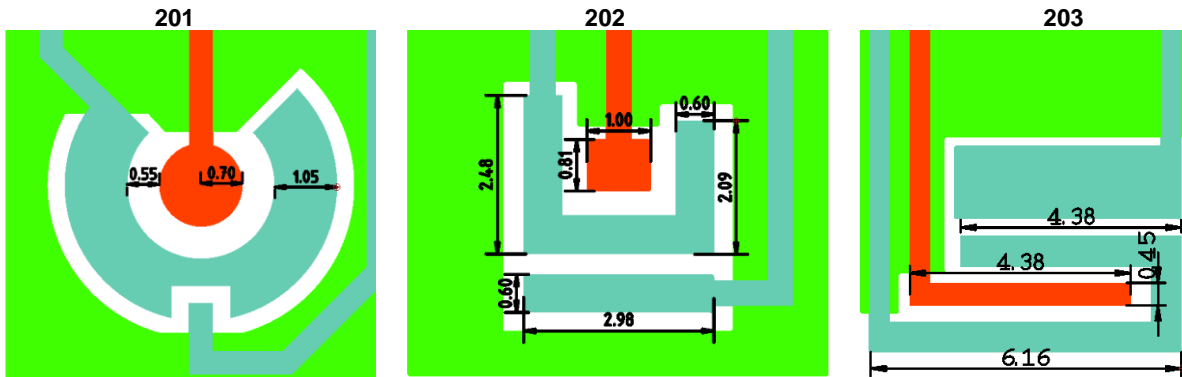
G – Gold
P – Platinum
C – Carbon

4. Counter/fill electrode material:

AC – Silver/Silver
G – Gold
P – Platinum
C – Carbon

5. Electrode geometry:

201 – Disk
202 – Disk with spill barrier/dispensing cradle and strictly planar diffusion
203 – Reduced working electrode



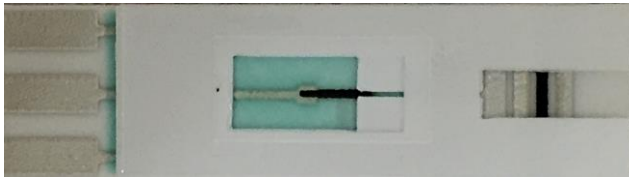
6. Target analyte:

N – None (Bare, unmodified electrode)
G – Glucose
L – Lactate
O – Oxygen
H – Hydrogen Peroxide
K – Nitric Oxide
P – Potassium

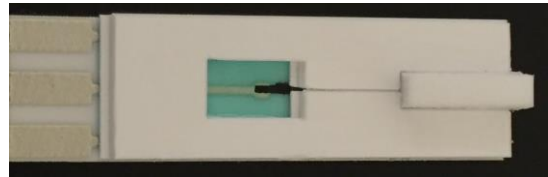
7. Capillary fill

N – None (No capillary fill)
C – Capillary fill, no filter
F – Capillary fill with PE filter

A-AC-C-AC-201-N-C



A-AC-C-AC-201-N-F



CUSTOMIZABILITY

Zimmer and Peacock can also make customized sensors with the option to target other analytes than those listed in this datasheet, tailored electrode configuration and geometry, and other materials. Please contact us through the contact form on zimmerpeacock.com or by e-mail on sales@zimmerpeacock.com