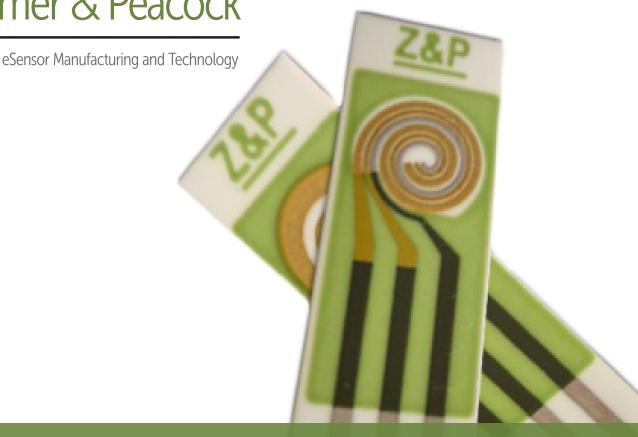
Zimmer & Peacock



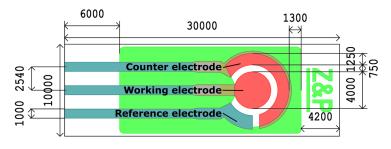
Technical Datasheet: Electrochemical sensors/biosensors

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 plugand-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. A number of different electrode dimensions and geometries allow for an optimized platform tailored to highly specific applications.

MECHANICAL DIMENSIONS

W=30mm, D=10mm, H=0.625mm



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

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

PERFORMANCE

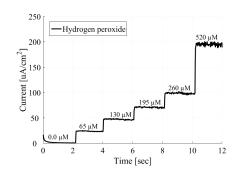
Storage Conditions	With modified surface	Bare electrodes		
Temperature	4-8 C°	Room temperature		
Lighting	Away from light	Away from light		
Physical protection	In container	In container		
Expiration	Use before 3 months	Use within two years		
Humidity	50% RH ± 20% RH	50% RH ± 20% RH		

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

SENSOR RESPONSE AND CONDITIONS

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



ORDERING CODE

А	_	AD	G	G	-	103	_	G

1. Substrate material:

A – Alumina 625 μm

2. Reference electrode material:

AP - Silver Platinum

AD - Silver Palladium

AC - Silver Chloride

3. Working electrode material:

G - Gold

P - Platinum

C - Carbon

4. Counter electrode material:

G - Gold

P - Platinum

C - Carbon

5. Electrode geometry:

101 - Disk

101-B - Disk with spill barrier/ dispensing cradle and strictly planar diffusion

110 - Reduced working electrode

102 - Ring

103 - Spiral

104 - Mini

106 - Micro 108 - Parallel flow

109 - Perpendicular flow

6. Target analyte:

N - None

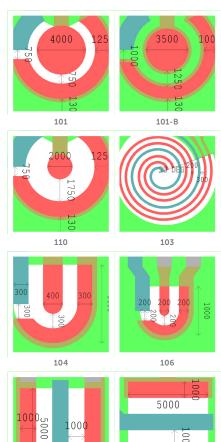
(Bare, unmodified electrode)

G - Glucose

L - Lactate

O - Oxygen H - Hydrogen Peroxide

K - Nitric Oxide



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