



Zimmer and Peacock Group

Sensor Consulting, Manufacturing and Commercialisation

Products Catalogue

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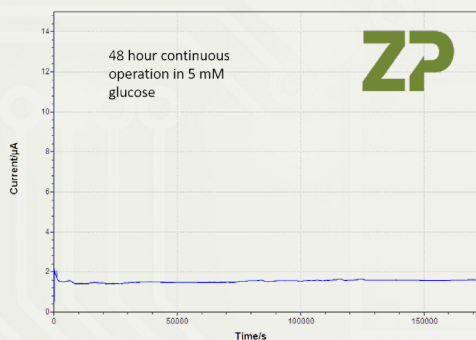
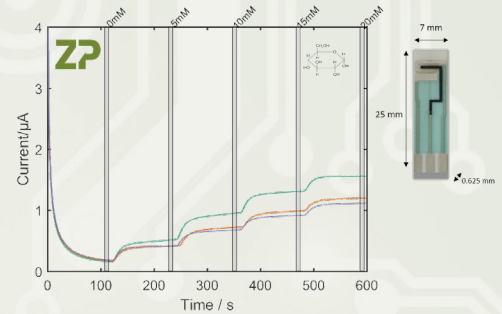
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1.1.1 Glucose Sensors

Zimmer and Peacock's Glucose Sensors can be used in continuous or discrete mode, the sensors are semi-reusable. At Zimmer and Peacock we recognise that one of the most important biosensors is still the glucose sensor, and therefore are launching our new glucose sensor for continuous glucose monitoring. The ZP Glucose Sensor is a unique formulation as it can be used either for discrete measurements and disposed of after each use, or it can be left in place for continuous measurement. We are also providing the Glucose Sensors in two additional micro-capillary formats, where the potassium sensor is housed within a microfluidic cavity, the cavity is designed so that solution is drawn automatically into the sensing area.



Below we are offering the potassium sensors in this capillary format with and without a filter paper. The filter paper which is situated within the capillary is designed to filter particles and materials from the sample matrix.

1.1.1.1 Glucose Sensor

Glucose sensors for applications where the sensor is disposable or where continuous measurement is required.

Glucose Sensor -- Cod. ZP010010001

1.1.1.2 Glucose Sensor with Capillary

Glucose sensors for applications where the sensor is disposable or where continuous measurement is required. This sensor has capillary fill, but no filter.

Glucose Sensor with Capillary -- Cod. ZP010010002

1.1.1.3 Glucose Sensor with Capillary and Filter in Place

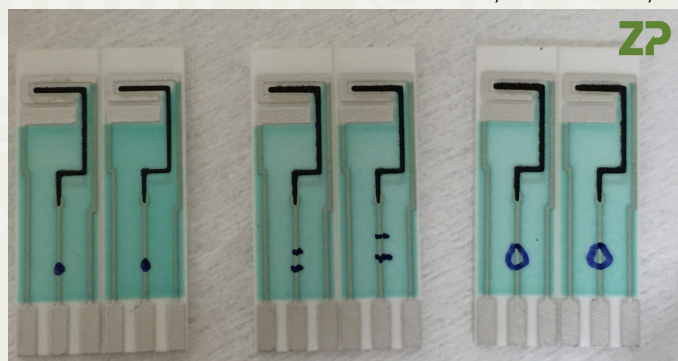
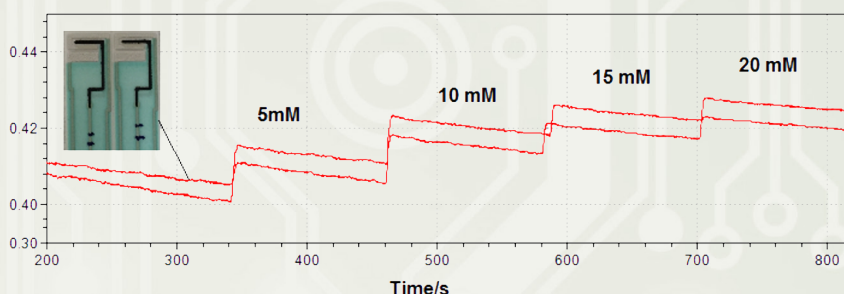
Glucose sensors for applications where the sensor is disposable or where continuous measurement is required. This sensor has capillary fill, but no filter in place.

Glucose Sensor with Capillary and Filter in Place -- Cod. ZP010010003

1.1.2 Potassium Sensors

Zimmer and Peacock introduce a Potassium Sensor, based on a format that makes the sensors suitable as single use or for continuous monitoring applications. We are also providing

the potassium sensors in two additional micro-capillary formats, where the potassium sensor is housed within a microfluidic cavity, the cavity is designed so that solution is drawn automatically



into the sensing area. Below we are offering the potassium sensors in this capillary format with and without a filter paper. The filter paper which is situated within the capillary is designed to filter particles and materials from the sample matrix.

1.1.2.1 Potassium Sensor / Potassium Ions Sensor

Potassium sensors for applications where the sensor is disposable or where continuous measurement is required.

Potassium Sensor / Potassium Ions Sensor -- Cod. ZP010010004

1.1.2.2 Potassium Sensor / Potassium Ions Sensor with Capillary

Potassium sensors for applications where the sensor is disposable or where continuous measurement is required. This sensor has capillary fill, but no filter.

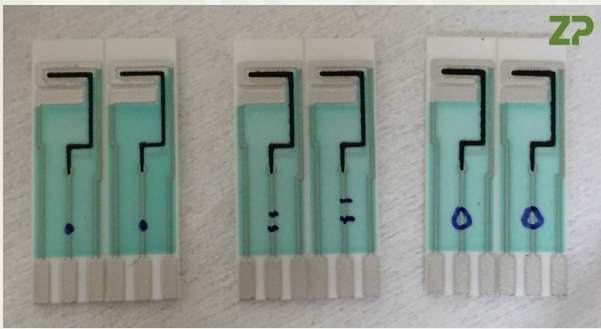
Potassium Sensor / Potassium Ions Sensor with Capillary -- Cod. ZP010010005

1.1.2.3 Potassium Sensor / Potassium Ions Sensor with Capillary and Filter in Place

Potassium sensors for applications where the sensor is disposable or where continuous measurement is required. This sensor has capillary fill, but no filter in place.

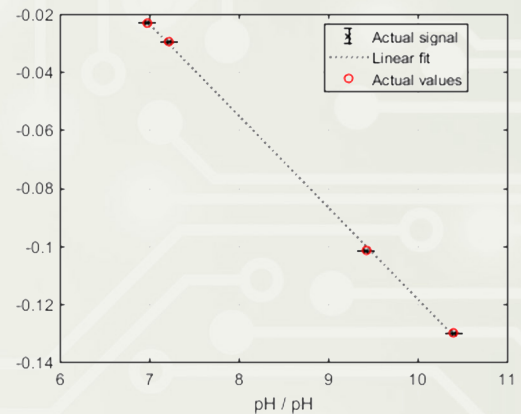
Potassium Sensor / Potassium Ions Sensor with Capillary and Filter in Place -- Cod. ZP010010006

1.1.3 pH Sensors



Zimmer and Peacock introduce a pH sensor, based on a format that makes the sensors suitable as single use or for continuous monitoring applications. We are also providing the pH sensors in two additional micro-capillary formats, where the pH sensor is housed

within a microfluidic cavity, the cavity is designed so that solution is drawn automatically into the sensing area. Below we are offering the pH sensors in this capillary format with and without a filter paper. The filter paper which is situated within the capillary is designed to filter particles and materials from the sample matrix.



1.1.3.1 pH Sensor

pH sensors for applications where the sensor is disposable or where continuous measurement is required.

pH Sensor -- Cod. ZP010010007

1.1.3.2 pH Sensor with Capillary

pH sensors for applications where the sensor is disposable or where continuous measurement is required. This sensor has capillary fill, but no filter.

pH Sensor with Capillary -- Cod. ZP010010008

1.1.3.3 pH Sensor with Capillary and Filter in Place

pH sensors for applications where the sensor is disposable or where continuous measurement is required. This sensor has capillary fill, but no filter in place.

pH Sensor with Capillary and Filter in Place -- Cod. ZP010010009

1.1.4 Nitric Oxide Sensors

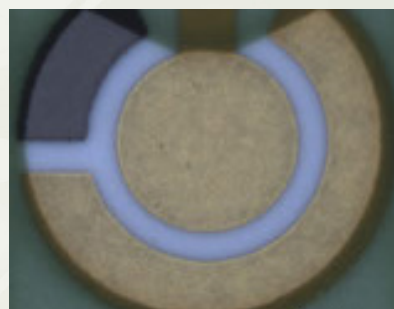
Zimmer and Peacock Nitric Oxide Sensor can be used in continuous or discrete mode, the sensors are semi-reusable.

1.1.4.1 (Macro) Micro-Molar to Milli-Molar Nitric Oxide Sensor A-AD-GG-101-K

A Nitric Oxide Sensor tuned for the micromolar to the millimolar nitric oxide concentrations.

25, 15, 10 or 2 per pack of disposable/semi-disposable sensors available.

A-AD-GG-101-K -- Cod ZP010010010

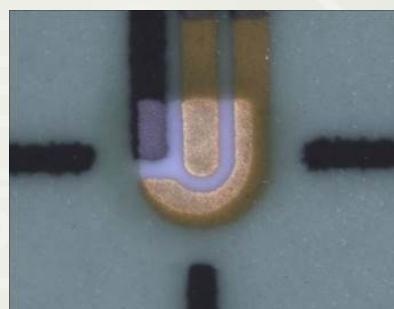


1.1.4.2 (Mini) Micro-Molar to Milli-Molar Nitric Oxide Sensor A-AD-GG-104-K

A Nitric Oxide Sensor tuned for the micromolar to the millimolar nitric oxide concentrations.

25, 15, 10 or 2 per pack of disposable/semi-disposable sensors available.

A-AD-GG-104-K -- Cod ZP010010011

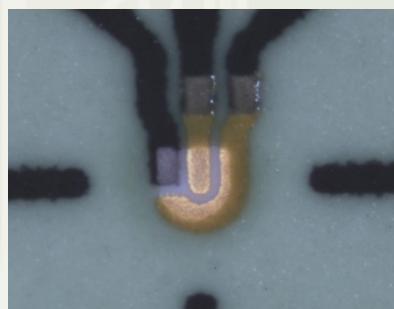


1.1.4.3 (Micro) Micro-Molar to Milli-Molar Nitric Oxide Sensor A-AD-GG-106-K

A Nitric Oxide Sensor tuned for the micromolar to the millimolar nitric oxide concentrations.

25, 15, 10 or 2 per pack of disposable/semi-disposable sensors available.

A-AD-GG-106-K -- Cod ZP010010012

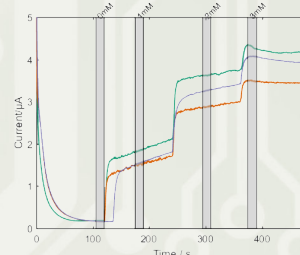


1.1.5 Lactate Sensor

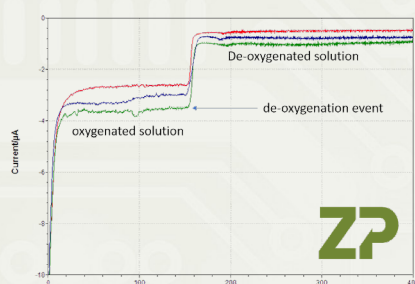


Zimmer and Peacock introduce a Lactate Sensor, based on a format that makes the sensors suitable as single use or for continuous monitoring applications.

Lactate Sensor -- Cod. ZP010010013



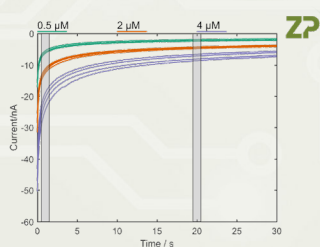
1.1.6 Oxygen Sensor



Welcome to the new Oxygen Sensor from Zimmer and Peacock. The Oxygen Sensors are intended for anyone looking for a robust low cost platform for oxygen sensing.

Oxygen Sensor -- Cod. ZP010010014

1.1.7 Hydrogen Peroxide Sensor

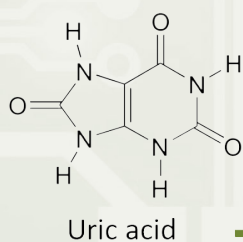


The Enzymatic Hydrogen Peroxide Sensors from Zimmer and Peacock are specific in their detection of peroxide and operate at a low voltage.

Hydrogen Peroxide Sensor -- Cod. ZP010010015



1.1.8 Uric Acid Sensor



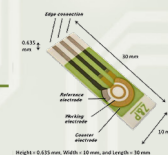
The Uric Acid Sensors from Zimmer and Peacock are specific in their detection of uric acid and operate at a low voltage.

Uric Acid Sensor -- Cod. ZP010010016

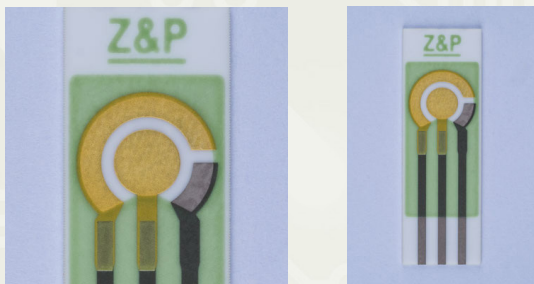


1.2.1 Bare Gold Sensors

1.2.1.1 Ag/AgPd Reference

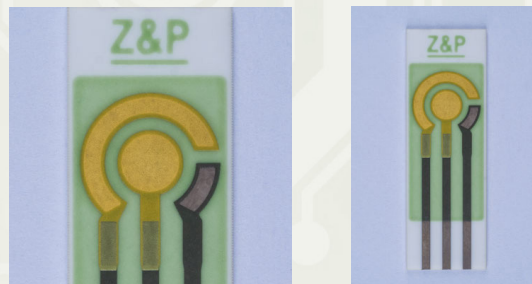


1.2.1.1.1 Bare Gold Sensor A-AD-GG-101-N



A-AD-GG-101-N -- Cod. ZP010020001

1.2.1.1.2 Bare Gold Sensor A-AD-GG-101-B-N



A-AD-GG-101-B-N -- Cod. ZP010020002

1.2.1.1.3 Bare Gold Sensor A-AD-GG-110-N



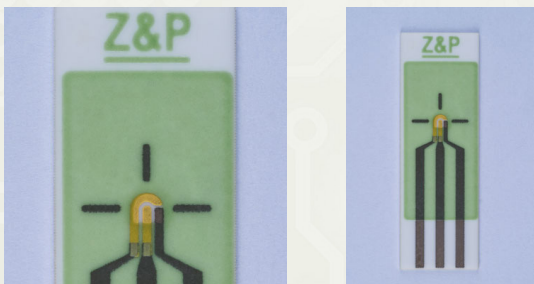
A-AD-GG-110-N -- Cod. ZP010020003

1.2.1.1.4 Bare Gold Sensor A-AD-GG-103-N



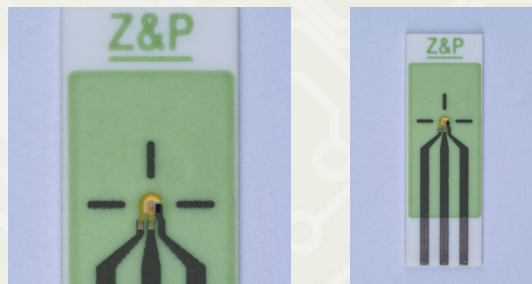
A-AD-GG-103-N -- Cod. ZP010020004

1.2.1.1.5 Bare Gold Sensor A-AD-GG-104-N



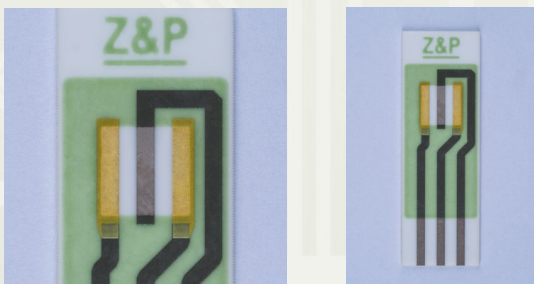
A-AD-GG-104-N -- Cod. ZP010020005

1.2.1.1.6 Bare Gold Sensor A-AD-GG-106-N



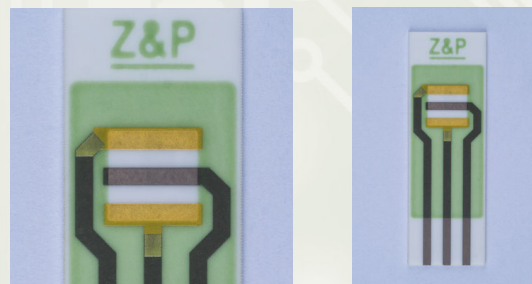
A-AD-GG-106-N -- Cod. ZP010020006

1.2.1.1.7 Bare Gold Sensor A-AD-GG-108-N



A-AD-GG-108-N -- Cod. ZP010020007

1.2.1.1.8 Bare Gold Sensor A-AD-GG-109-N



A-AD-GG-109-N -- Cod. ZP010020008

Height = 0.635 mm, Width = 15 mm, and Length = 30 mm

1.2.1.2.2 Bare Gold Sensor A-AC-GG-101-B-N



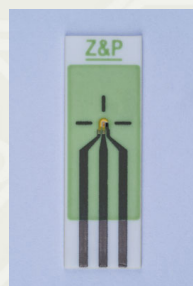
A-AC-GG-101-B-N-- Cod. ZP010020012

1.2.1.2.4 Bare Gold Sensor A-AC-GG-103-N



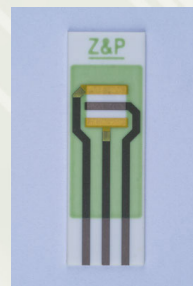
A-AC-GG-103-N -- Cod. ZP010020014

1.2.1.2.6 Bare Gold Sensor A-AC-GG-106-N



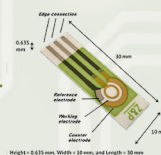
A-AC-GG-106-N -- Cod. ZP010020016

1.2.1.2.8 Bare Gold Sensor A-AC-GG-109-N



A-AC-GG-109-N-- Cod. ZP010020018

1.2.2 Bare Carbon Sensors



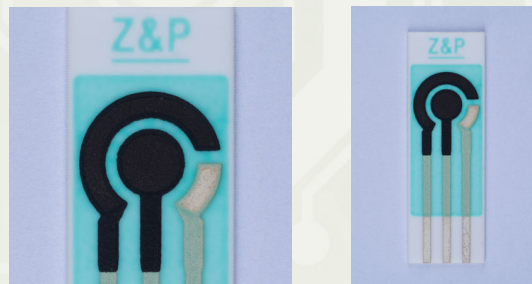
1.2.2.1 Aqueous / Biosensors

1.2.2.1.1 Bare Carbon Sensor A-AC-CC-101-N



A-AC-CC-101-N -- Cod. ZP01002021

1.2.2.1.2 Bare Carbon Sensor A-AC-CC-101-B-N



A-AC-CC-101-B-N -- Cod. ZP01002022

1.2.2.1.3 Bare Carbon Sensor A-AC-CC-110-N



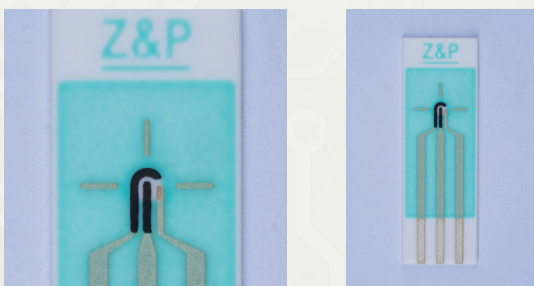
A-AC-CC-110-N -- Cod. ZP01002023

1.2.2.1.4 Bare Carbon Sensor A-AC-CC-103-N



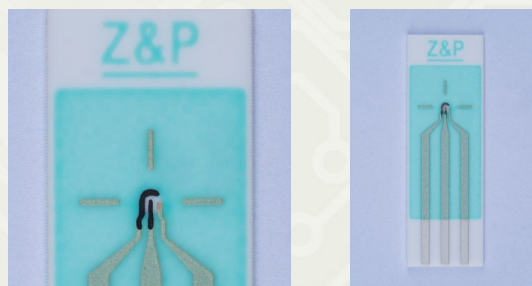
A-AC-CC-103-N -- Cod. ZP01002024

1.2.2.1.5 Bare Carbon Sensor A-AC-CC-104-N



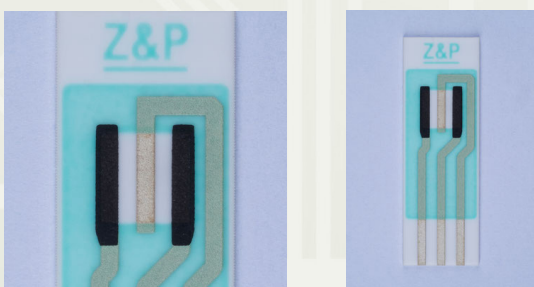
A-AC-CC-104-N -- Cod. ZP01002025

1.2.2.1.6 Bare Carbon Sensor A-AC-CC-106-N



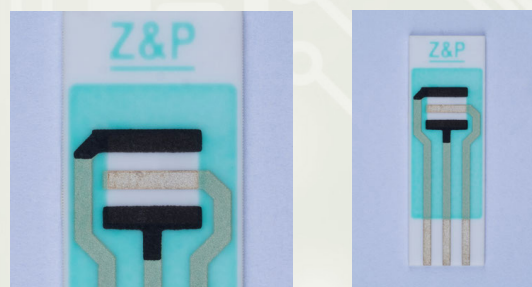
A-AC-CC-106-N -- Cod. ZP01002026

1.2.2.1.7 Bare Carbon Sensor A-AC-CC-108-N



A-AC-CC-108-N -- Cod. ZP01002027

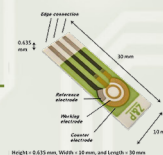
1.2.2.1.8 Bare Carbon Sensor A-AC-CC-109-N



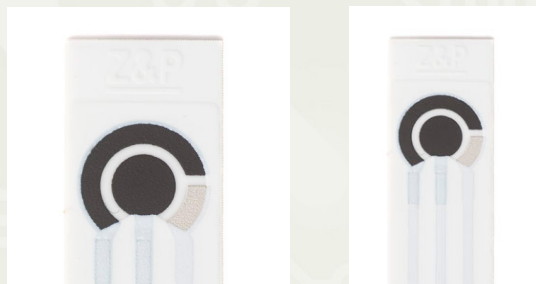
A-AC-CC-109-N -- Cod. ZP01002028

1.2.2 Bare Carbon Sensors

1.2.2.2 For Organic Solvent Systems



1.2.2.2.1 Bare Carbon Sensor A-ACv-CvCv-101-N



A-ACv-CvCv-101-N -- Cod. ZP010020031

1.2.2.2.2 Bare Carbon Sensor A-ACv-CvCv-101-B-N



A-ACv-CvCv-101-B-N -- Cod. ZP010020032

1.2.2.2.3 Bare Carbon Sensor A-ACv-CvCv-110-N



A-ACv-CvCv-110-N -- Cod. ZP010020033

1.2.2.2.4 Bare Carbon Sensor A-ACv-CvCv-103-N



A-ACv-CvCv-103-N -- Cod. ZP010020034

1.2.2.2.5 Bare Carbon Sensor A-ACv-CvCv-104-N



A-ACv-CvCv-104-N -- Cod. ZP010020035

1.2.2.2.6 Bare Carbon Sensor A-ACv-CvCv-106-N



A-ACv-CvCv-106-N -- Cod. ZP010020036

1.2.2.2.7 Bare Carbon Sensor A-ACv-CvCv-108-N



A-ACv-CvCv-108-N -- Cod. ZP010020037

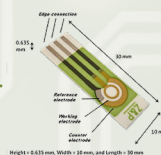
1.2.2.2.8 Bare Carbon Sensor A-ACv-CvCv-109-N



A-ACv-CvCv-109-N -- Cod. ZP010020038

1.2.3 Bare Platinum Sensors

1.2.3.1 Aqueous / Biosensors



1.2.3.1.1 Bare Platinum Sensor A-AC-PP-101-N



A-AC-PP-101-N -- Cod. ZP010020041

1.2.3.1.2 Bare Platinum Sensor A-AC-PP-101-B-N



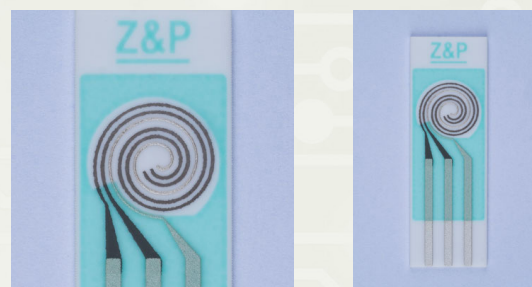
A-AC-PP-101-B-N -- Cod. ZP010020042

1.2.3.1.3 Bare Platinum Sensor A-AC-PP-110-N



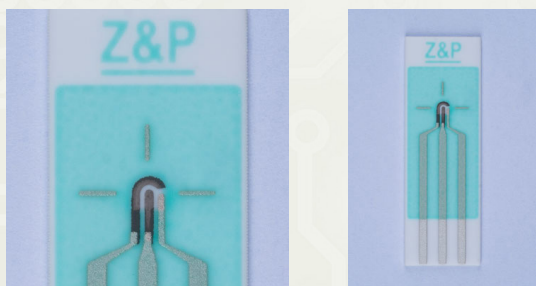
A-AC-PP-110-N -- Cod. ZP010020043

1.2.3.1.4 Bare Platinum Sensor A-AC-PP-103-N



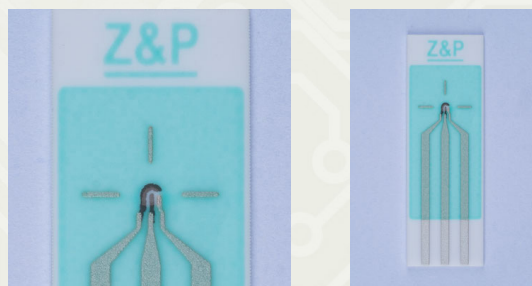
A-AC-PP-103-N -- Cod. ZP010020044

1.2.3.1.5 Bare Platinum Sensor A-AC-PP-104-N



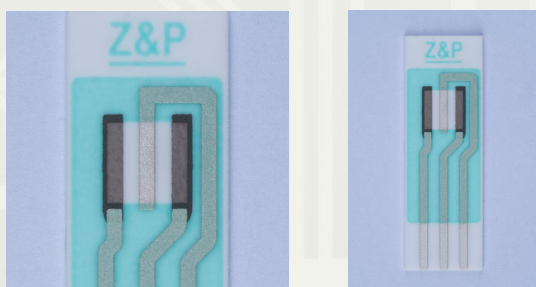
A-AC-PP-104-N -- Cod. ZP010020045

1.2.3.1.6 Bare Platinum Sensor A-AC-PP-106-N



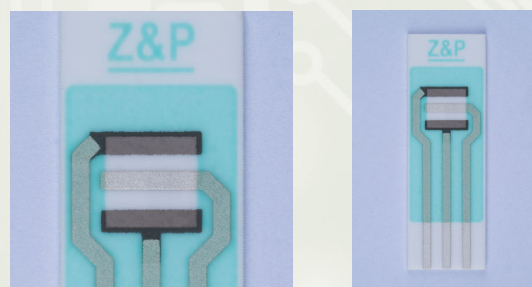
A-AC-PP-106-N -- Cod. ZP010020046

1.2.3.1.7 Bare Platinum Sensor A-AC-PP-108-N



A-AC-PP-108-N -- Cod. ZP010020047

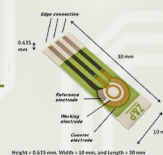
1.2.3.1.8 Bare Platinum Sensor A-AC-PP-109-N



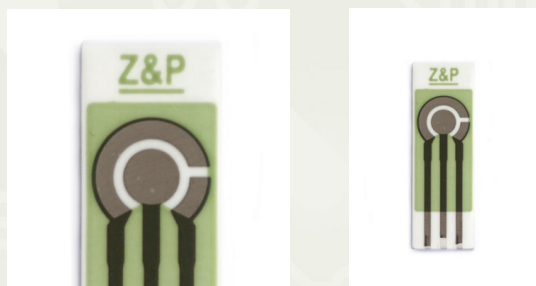
A-AC-PP-109-N -- Cod. ZP010020048

1.2.3 Bare Platinum Sensors

1.2.3.2 For Organic Solvent Systems



1.2.3.2.1 Bare Platinum Sensor A-P-PP-101-N



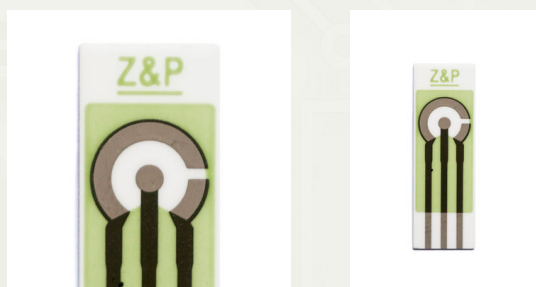
A-P-PP-101-N -- Cod. ZP010020051

1.2.3.2.2 Bare Platinum Sensor A-P-PP-101-B-N



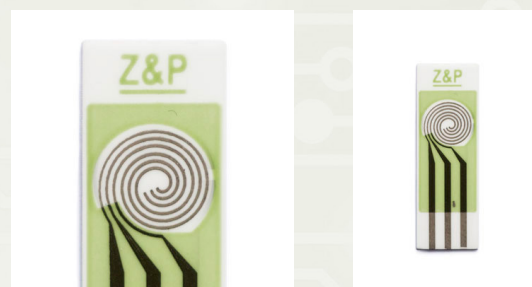
A-P-PP-101-B-N -- Cod. ZP010020052

1.2.3.2.3 Bare Platinum Sensor A-P-PP-110-N



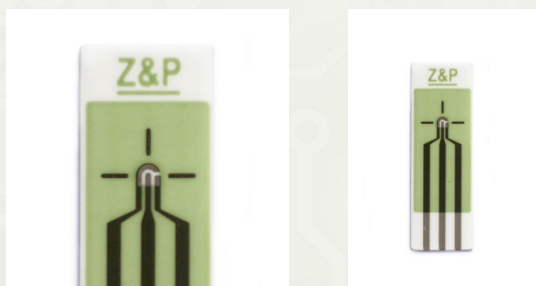
A-P-PP-110-N -- Cod. ZP010020053

1.2.3.2.4 Bare Platinum Sensor A-P-PP-103-N



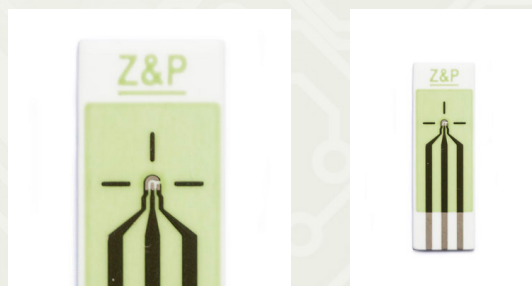
A-P-PP-103-N -- Cod. ZP010020054

1.2.3.2.5 Bare Platinum Sensor A-P-PP-104-N



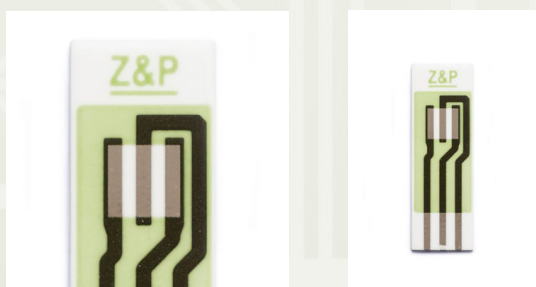
A-P-PP-104-N -- Cod. ZP010020055

1.2.3.2.6 Bare Platinum Sensor A-P-PP-106-N



A-P-PP-106-N -- Cod. ZP010020056

1.2.3.2.7 Bare Platinum Sensor A-P-PP-108-N



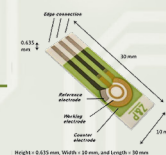
A-P-PP-108-N -- Cod. ZP010020057

1.2.3.2.8 Bare Platinum Sensor A-P-PP-109-N



A-P-PP-109-N -- Cod. ZP010020058

1.2.4 Bare Graphene Sensors

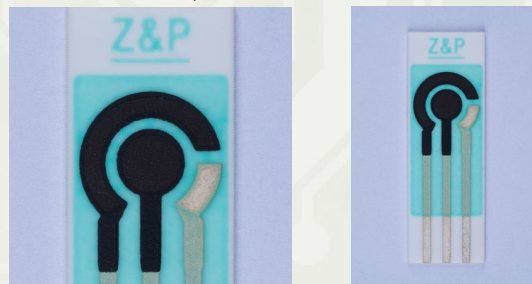


1.2.4.1 Bare Graphene Sensor A-AC-GrGr-101-N



A-AC-GrGr-101-N -- Cod. ZP010020061

1.2.4.2 Bare Graphene Sensor A-AC-GrGr-101-B-N



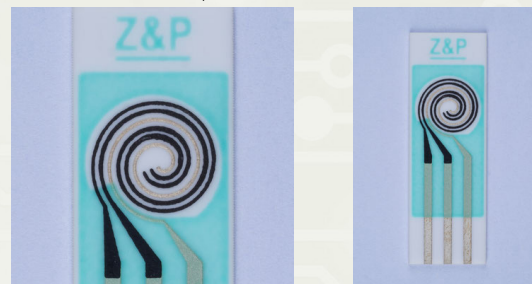
A-AC-GrGr-101-B-N -- Cod. ZP010020062

1.2.4.3 Bare Graphene Sensor A-AC-GrGr-110-N



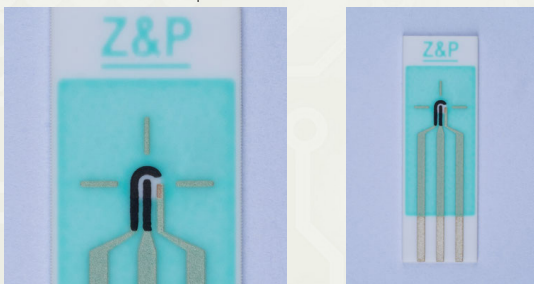
A-AC-GrGr-110-N -- Cod. ZP010020063

1.2.4.4 Bare Graphene Sensor A-AC-GrGr-103-N



A-AC-GrGr-103-N -- Cod. ZP010020064

1.2.4.5 Bare Graphene Sensor A-AC-GrGr-104-N



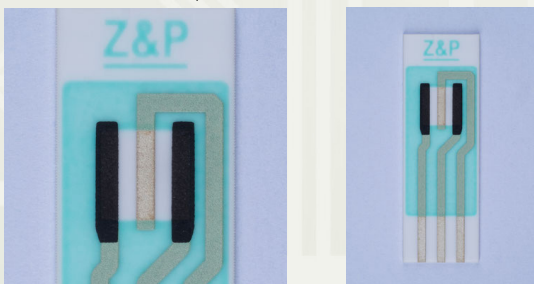
A-AC-GrGr-104-N -- Cod. ZP010020065

1.2.4.6 Bare Graphene Sensor A-AC-GrGr-106-N



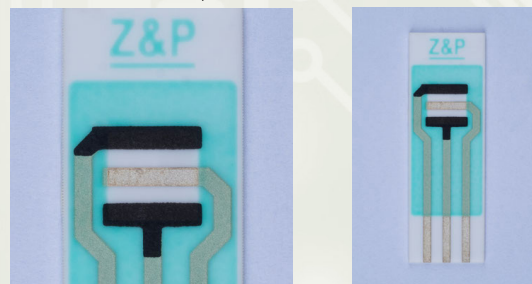
A-AC-GrGr-106-N -- Cod. ZP010020066

1.2.4.7 Bare Graphene Sensor A-AC-GrGr-108-N



A-AC-GrGr-108-N -- Cod. ZP010020067

1.2.4.8 Bare Graphene Sensor A-AC-GrGr-109-N



A-AC-GrGr-109-N -- Cod. ZP010020068

1.2.5 Mixed Sensor Packs

1.2.5.1 Developer's Advanced Mixed Sensor Pack

ZP Mixed Sensor Pack are designed to give the sensor developer the widest range of sensors with the minimum amount of effort. For those wishing to develop a sensor or a medical diagnostic the Developer's Advanced Mixed Sensor Pack provides:

- 135 Sensors in one pack;
- Three Materials: Carbon, Gold and Platinum;
- Contains Electrodes with increased resistance to Organic Solvents;
- 8 configurations of Sensors.

In this comprehensive pack the scientist / engineer can answer all their questions around size of electrodes, electrodes configuration, electrode materials, resistance to organic solvents, etc. The Advanced Mixed Sensor Pack in combination with the Ana Fleuve is truly the most efficient way of finding the electrode material, electrode size and electrode geometry which gives you the best signal for your assay.

Developer's Advanced Mixed Sensor Pack -- Cod. ZP010021001

1.2.5.2 Developer's Gold Mixed Sensor Pack

ZP Mixed Sensor Pack are designed to give the sensor developer the widest range of sensors with the minimum amount of effort. For those wishing to develop a sensor or a medical diagnostic the Developer's Gold Mixed Sensor Pack provides:

- 27 Sensors in one pack;
- All Sensors have Gold Electrodes;
- Contains Electrodes resistant to Organic Solvents;
- 8 configurations of Sensors.

In this simple pack the scientist / engineer can answer all their questions around size of electrodes, electrodes configuration, electrode materials etc.

The Gold Mixed Sensor Pack in combination with the Ana Fleuve is truly the most efficient way of finding the electrode material, electrode size and electrode geometry which gives you the best signal for your assay.

Developer's Gold Mixed Sensor Pack -- Cod. ZP010021002

1.2.5 Mixed Sensor Packs

1.2.5.3 Developer's Carbon Mixed Sensor Pack

ZP Mixed Sensor Pack are designed to give the sensor developer the widest range of sensors with the minimum amount of effort. For those wishing to develop a sensor or a medical diagnostic the Developer's Carbon Mixed Sensor Pack provides:

- 54 Sensors in one pack;
- All Sensors have Carbon Electrodes;
- Contains Electrodes with increased resistance to Organic Solvents;
- 8 configurations of Sensors.

In this comprehensive pack the scientist / engineer can answer all their questions around size of electrodes, electrodes configuration, electrode materials, resistance to organic solvents, etc. The Carbon Mixed Sensor Pack in combination with the Ana Fleuve is truly the most efficient way of finding the electrode material, electrode size and electrode geometry which gives you the best signal for your assay.

Developer's Carbon Mixed Sensor Pack -- Cod. ZP010021003

1.2.5.4 Developer's Platinum Mixed Sensor Pack

ZP Mixed Sensor Pack are designed to give the sensor developer the widest range of sensors with the minimum amount of effort. For those wishing to develop a sensor or a medical diagnostic the Developer's Platinum Mixed Sensor Pack provides:

- 54 Sensors in one pack;
- All Sensors have Platinum Electrodes;
- Contains Electrodes with increased resistance to Organic Solvents;
- 8 configurations of Sensors.

In this simple pack the scientist / engineer can answer all their questions around size of electrodes, electrodes configuration, electrode materials etc.

The Platinum Mixed Sensor Pack in combination with the Ana Fleuve is truly the most efficient way of finding the electrode material, electrode size and electrode geometry which gives you the best signal for your assay.

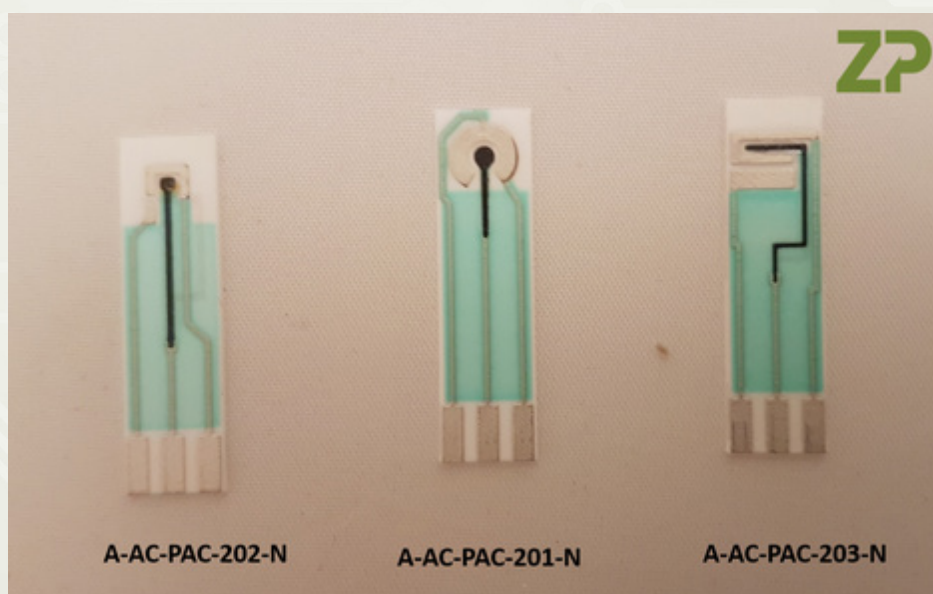
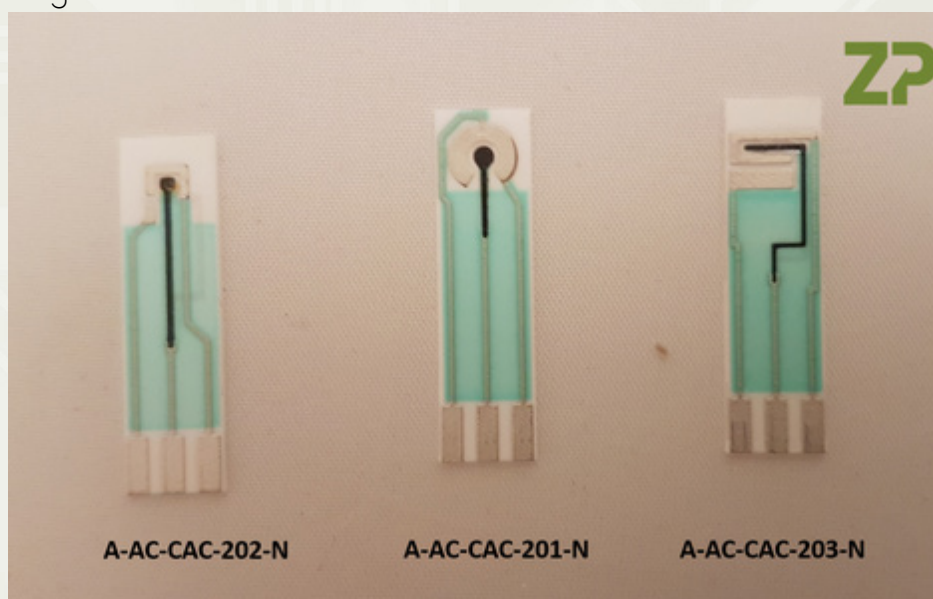
Developer's Platinum Mixed Sensor Pack -- Cod. ZP010021004

1.2.6 Bare Value Sensors

Zimmer and Peacock has one of the largest ranges of commercially available screen printed electrodes; on this page we present our best value screen printed electrodes.

These electrodes are identical to our standard range of screen printed electrodes, except they are smaller and therefore are our best value screen printed electrodes:

Width 7 mm, Length 25 mm.

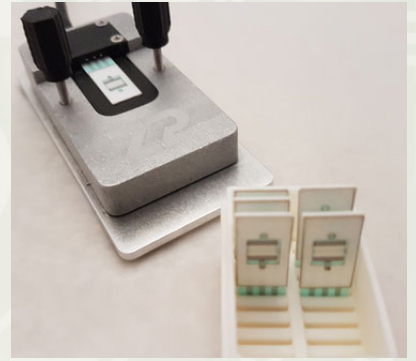


Available in 2 versions: 25 mm x 7 mm x 625 micron Screen Printed Platinum or Carbon electrodes.

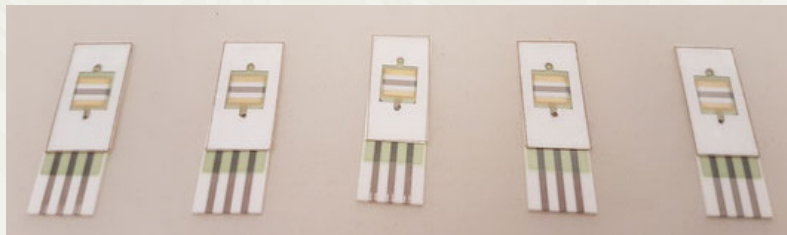
Bare Value Sensors – Cod. ZP010022001



Zimmer and Peacock have launched the world's first Capillary-Fill Sensor for the Research and Development market, both academia and industry. We provide these capillary-fill sensors in Gold, Carbon and Platinum.



1.3.1 Gold Electrode Capillary-Fill Sensor



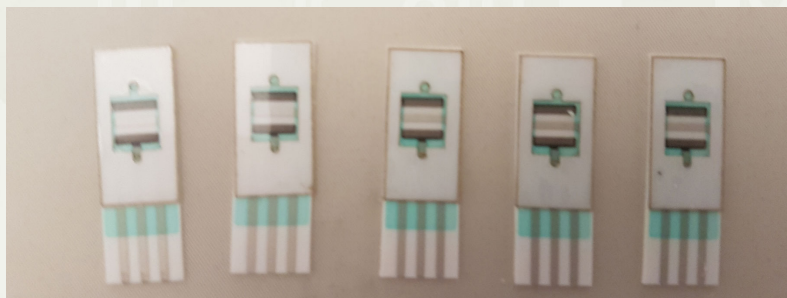
Gold Electrode Capillary-Fill Sensors -- Cod. ZP010030001

1.3.2 Carbon Electrode Capillary-Fill Sensor



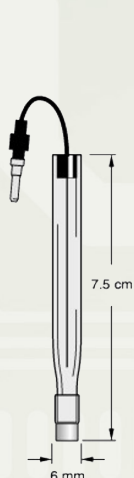
Carbon Electrode Capillary-Fill Sensors -- Cod. ZP010030002

1.3.3 Platinum Electrode Capillary-Fill Sensor



Platinum Electrode Capillary-Fill Sensors -- Cod. ZP010030003

1.4.1 Aqueous Silver / Silver Chloride Reference Electrodes



ZP

Zimmer and Peacock Aqueous Silver/Silver Chloride Reference electrode in 3 M NaCl

Aqueous Silver/Silver Chloride Reference Electrodes -- Cod. ZP010040001

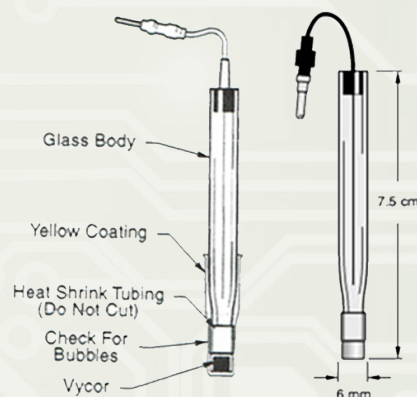
Important Instructions

Upon receipt of the electrode carefully remove the protective yellow plastic coating and store in 3 M NaCl.

To remove the yellow plastic coating roll down the top edge of the plastic coating, then cut with small scissors. Keep rolling and cutting until the yellow coating is removed.



ZP



Cautions:

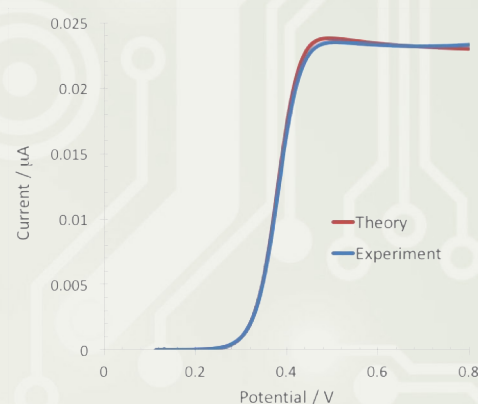
- 1) Do not cut too deeply with the scissors or else the Teflon heat shrink tubing may be damaged.
- 2) Do not tug the yellow coating off the glass body or the Vycor frit maybe pulled off the end of the electrode.
- 3) Use of a reference electrode with bubbles lodged in the tip may prevent electrical contact with the sample solution and cause damage to the working electrode. Bubbles can be dislodged by holding the top of the electrode with one hand and tapping the electrode near the Vycor tip with the other hand until the bubbles rise to the top.

1.4.2 Micro Disk Electrodes



These microelectrodes are fabricated and tested by electrochemists, resulting in the 'perfect' microdisk electrode.

These microelectrodes are available in gold or platinum (Au, Pt) and a range of standard sizes: 10, 20, 50 and 100 micrometers.



1.4.2.1 Gold Micro Disk Electrodes

A Microelectrode made from Gold embedded within Glass. You can choose the Au disk diameter.

Gold Microelectrode -- Cod. ZP010040002

1.4.2.2 Platinum Micro Disk Electrodes

A Microelectrode made from Platinum embedded within Glass. You can choose the Pt disk diameter.

Platinum Microelectrode -- Cod. ZP010040003

1.4.2.3 Micro Disk Electrode Certificate

Electrochemical characterization and supply of data. Request to have your sensor individually characterized with a redox couple.

Micro Disk Electrode Characterization Certificate -- Cod. ZP010040004

1.4.3 Macro Disk Electrodes



Zimmer and Peacock's Macroelectrodes are designed, fabricated and tested by electrochemists. Result is the 'perfect' Macrodisk Electrode.

1.4.3.1 Glassy Carbon Macro Disk Electrode

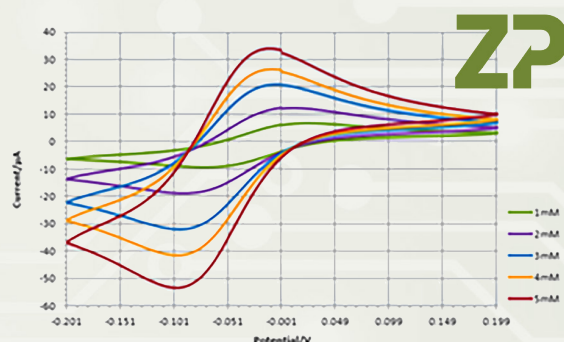
A Macroelectrode made from Carbon embedded within Glass.

Glassy Macro Disk Electrode -- Cod. ZP010040005

1.4.3.2 Macro Disk Electrode Certificate

Electrochemical characterization and supply of data. Request to have your sensor individually characterized with a redox couple.

Macro Disk Electrode Characterization Certificate -- Cod. ZP010040006



Using 5 different concentrations of Potassium Hexacyanoferrate (III), voltage was swept from -0.2 to 0.2V and current recorded. Cyclic voltammetry test was run in flow stop mode. Scan rate was 100 mV/seconds.

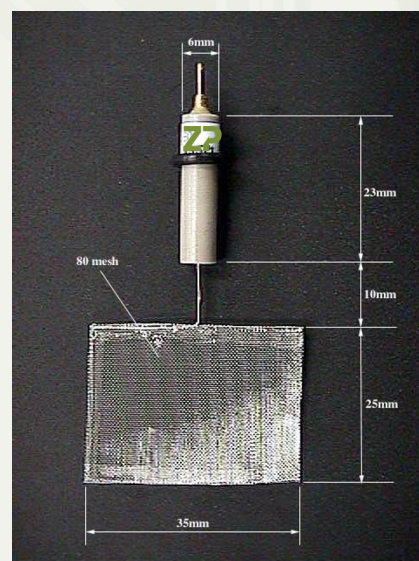
1.4.4 Platinum Wire/Gauze Electrodes

1.4.4.1 Platinum Wire Electrode 5.7mm



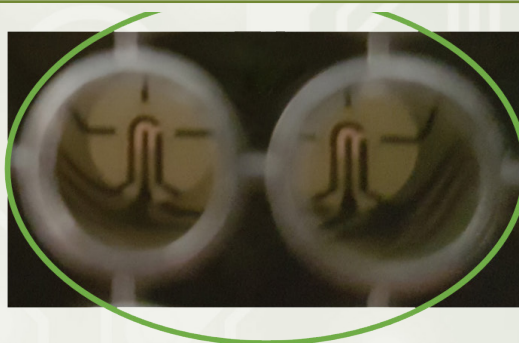
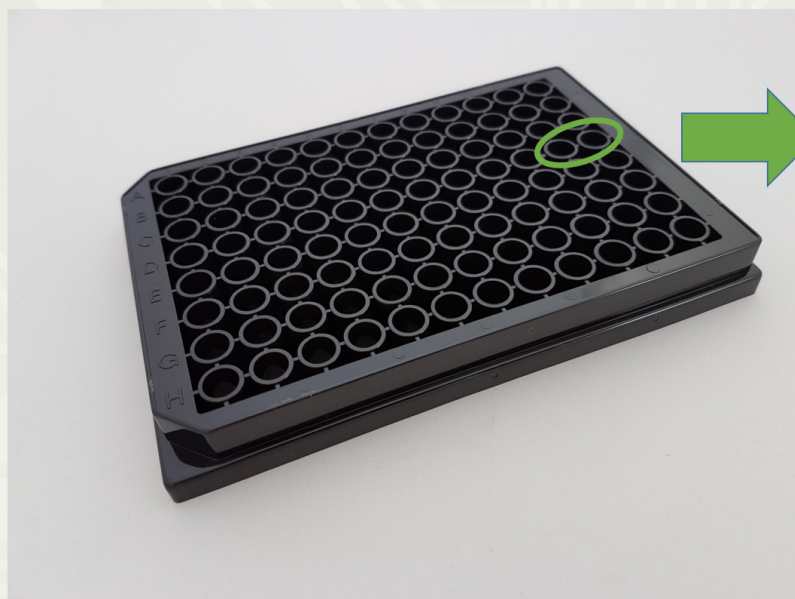
Platinum Wire Electrode 5.7mm -- Cod. ZP010040007

1.4.4.2 Platinum Electrode



Platinum Electrode -- Cod. ZP010040008

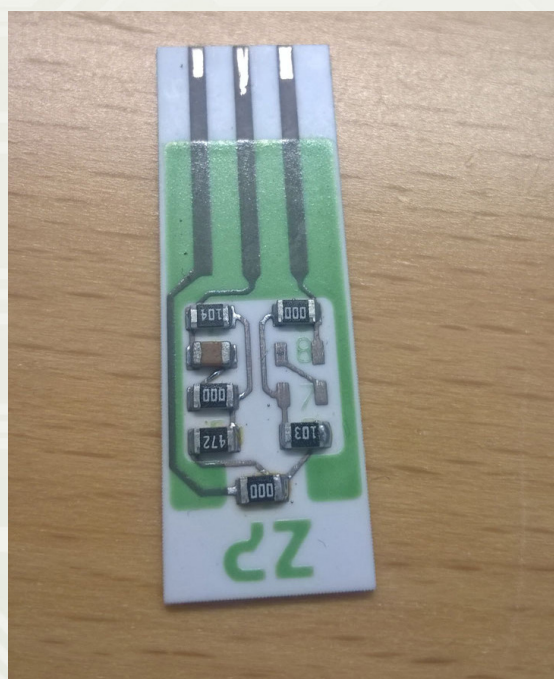
1.4.5 SBS Microtitre Plate Sensor Arrays



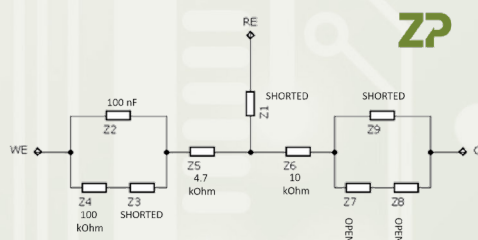
Zimmer and Peacock recognise that the SBS Microtitre plate format forms a critical part of the workflow in many modern sciences. Therefore, Zimmer and Peacock offer their sensors and biosensors in a 24-well, 96-well and 384 well format. Our clients and customers can choose which sensors they wish to have positioned within the wells.

SBS Microtitre plate Sensor Arrays -- Cod. ZP010040009

1.4.6 Solid State Validation Sensors



Zimmer and Peacock provide standard validation sensors, these sensors are equivalent to a sensor, biosensors or medical diagnostic except that all the components are solid state and so an engineer can develop their electronics independently of the sensor, chemistry and biology.

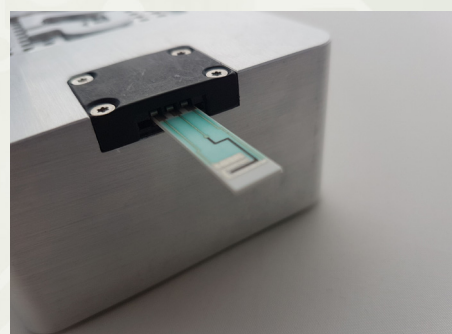
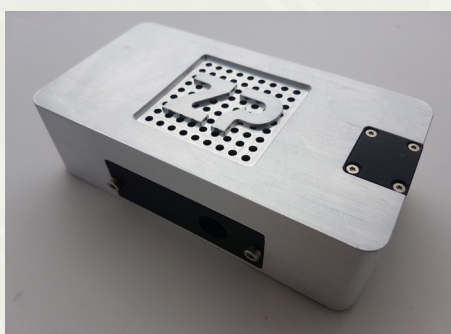


SBSolid State Validation Sensors -- Cod. ZP010040010

2.1 Ana Fleuve

Zimmer and Peacock have two technologies for driving sensors. For the R and D phase stage of a programme is the Ana Fleuve, a fully specified electro-analytical workstation able to perform a host of electro-analytical techniques over a range of currents and voltages. In this category, we have 3 products: Ana Pot, Ana Pot Extra and Ana Pot 4X EIS.

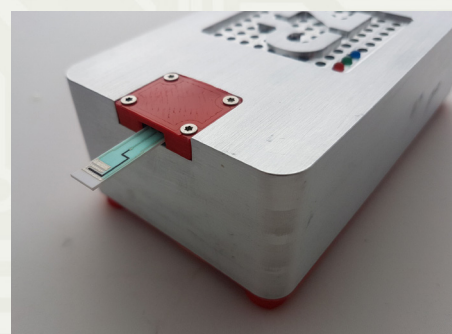
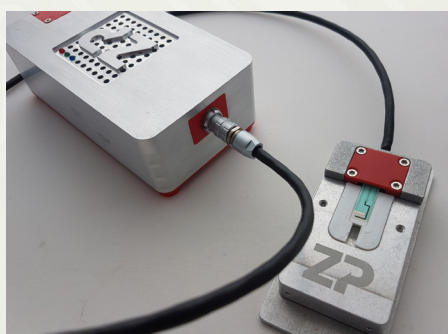
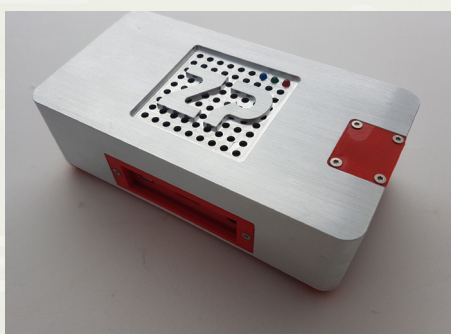
2.1.1 Ana Pot



Ana Pot is a super flexible USB powered mini electrochemical workstation with potentiostatic and potentiodynamic modes of operations, and is compatible with all of Zimmer and Peacock's sensors, which includes bare sensors and biosensors.

Ana Pot -- Cod. ZP020010001

2.1.2 Ana Pot Extra



Ana Pot Extra is a super flexible USB powered mini electrochemical workstation with potentiostatic and potentiodynamic modes of operations with a single board computer with bluetooth connectivity built in, and is compatible with all of Zimmer and Peacock's sensors, which includes bare sensors and biosensors.

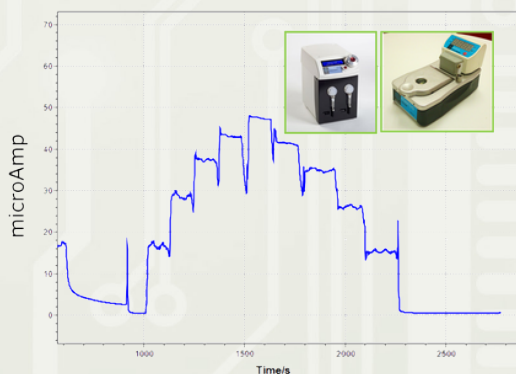
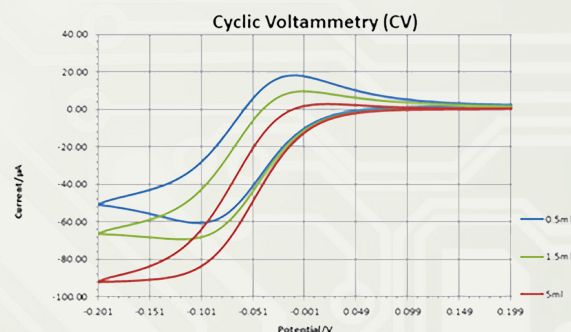
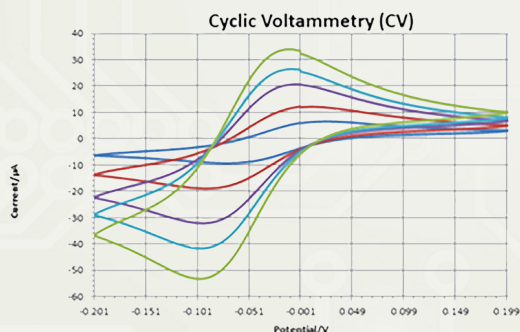
Ana Pot Extra -- Cod. ZP020010002

2.1.3 Ana Pot 4X - EIS



For those who want impedance and potentiostatic techniques as well then we have the Ana Pot 4X, an Ana Pot potentiostat with EIS functionalit. This is a super flexible USB powered mini electrochemical workstation with galvanostatic, potentiostatic, and electrochemical impedance modes of operations, and is compatible with all of Zimmer and Peacock's sensors, which includes bare sensors and biosensors.

Ana Pot 4X - Handheld Electrochemical Impedance Spectrometer EIS -- Cod. ZP020010003



The analyte concentration staircase was created using a dual syringe pump, where the analyte in buffer was loaded into one syringe, whilst buffer alone was loaded into the other. The pump rates were adjusted to create the concentration profile.

2.2 EZ Sense OEM

Zimmer and Peacock have two technologies for driving sensors. For the higher volumes and lower pricing requirements we have the EZ Sense OEM, for customers and collaborators who need a single function board to put into mass production.

- Board with display for confirmation of system performance.
- Micro USB cable to USB Type B.
- Software for PC and device drivers.
- Easy calibration of the system to your analytes.
- Expert support from our team, with subject expertise on both the electronics, sensors and application



EZ Sense OEM -- Cod. ZP020020001

2.3 USB Galvanic Isolator

This galvanic isolator sits between a PC and a USB device, such as the Ana Pot range of potentiostats, and reduces cross-talk between one or more instruments connected into the same PC/hub. The USB 2.0 Galvanic Isolator Adaptor is used for:



- Protection of computer and attached USB devices (great for LAB & Field use).
- Protection of electronic circuits when doing technical measurements (Logic analyser, scope, ports, etc).
- Protection of programmer and circuit boards when programming embedded boards.
- Allows safe Serial port galvanic separation for communication.
- Avoiding ground loops between devices (for instance PC >> USB2ISO >> USB-printer, PC >> USB-SoundCard >> Surround Amplifier).

USB Galvanic Isolator -- Cod. ZP020020002

2.4 Biosensor Developers' Kits



Zimmer and Peacock are all about getting our collaborators, partners and customers to the market with their biosensors and medical diagnostics ASAP. This is embedded within our philosophy, products and services. As part of this we provide the Biosensor Developers Kit, which is everything you need in one box for starting on your biosensor development including:

- Ana Pot - Potentiostat/Sensor Reader
- Ana Rig - For making electrical and fluidic connections to the sensors
- 100 Various Bare Sensors



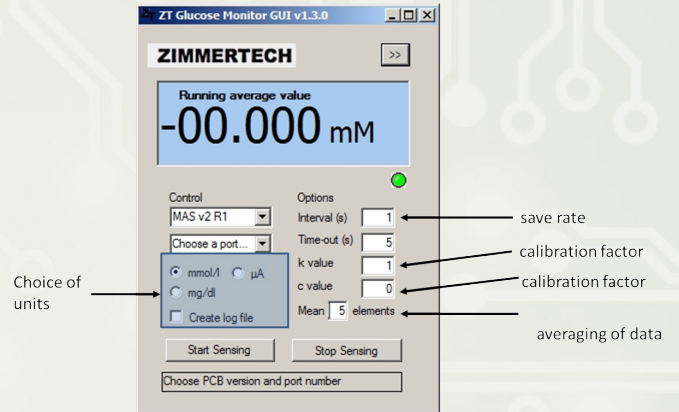
Note: we have two versions of the Biosensor Developers' Kit, one with electrochemical impedance spectroscopy functionality and one without.

Biosensor Developers' Kits -- Cod. ZP020030001

3.1 eZ Sense Software

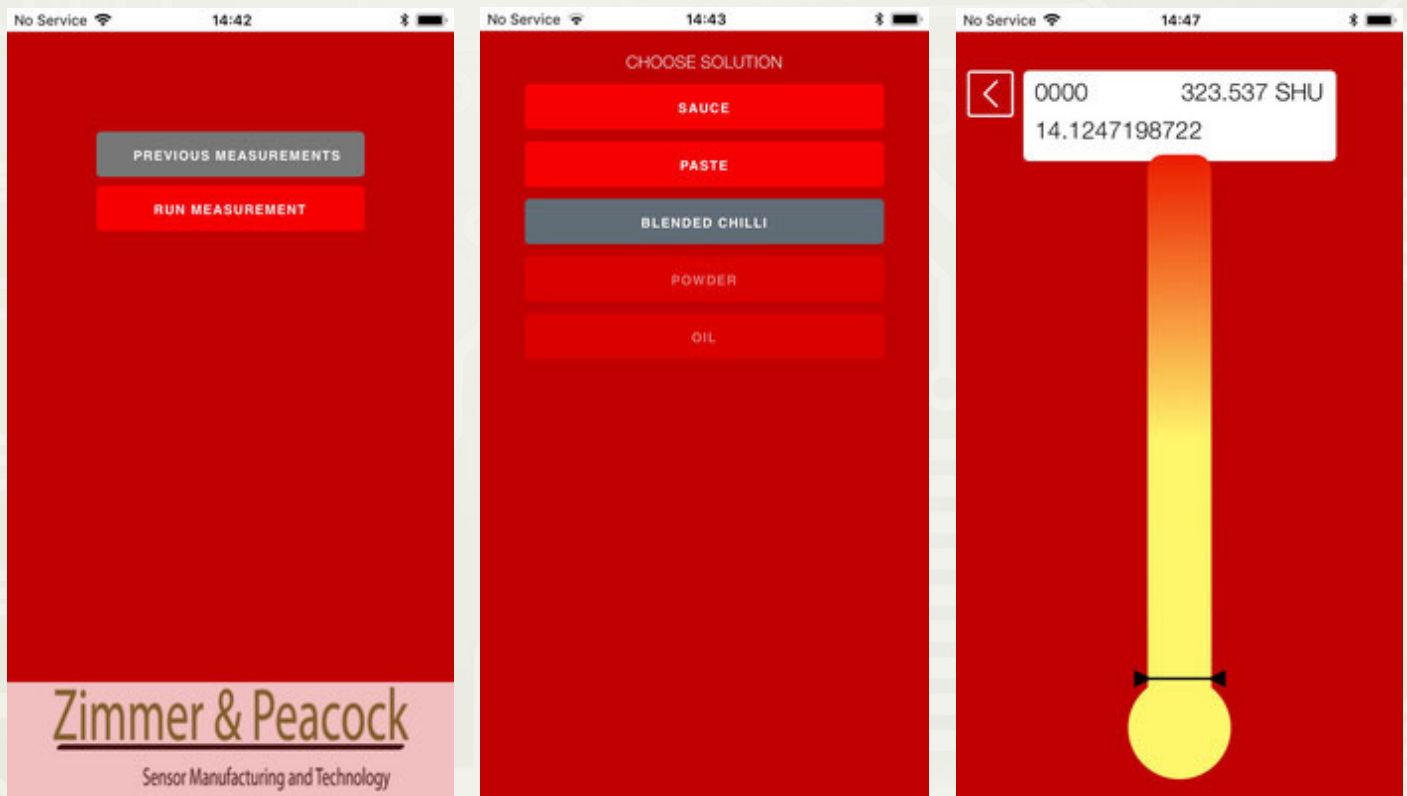
Zimmer and Peacock's eZ Sense OEM technology is the easiest plug in module to your sensor programme or product development effort, and is supported by our software.

- Plug and Play Hardware with Software.
- Micro USB Ctable to USB Type B.
- Software for PC and device drivers, easy control over: save rate, calibration factors, averaging, change of units.



Zimmer and Peacock understand that a diagnostic product has several elements including cartridges, cartridge readers and of course software / firmware. We are able to deliver the software / Android / iOS application along with the readers and cartridges.

eZ Sense Software -- Cod. ZP030010001



4.1.1 Ana Drop Adapters

The Ana Drop Adapter is intended to create a well above the Zimmer and Peacock sensors, so that samples, reagents etc. can be easily pipetted onto the electrodes.



4.1.1.1 Ana Drop Adapter

Batch adaptor for Zimmer and Peacock sensors fabricated in Glass or Plastic depending on the application.

Ana Drop Adapter -- Cod. ZP040010001

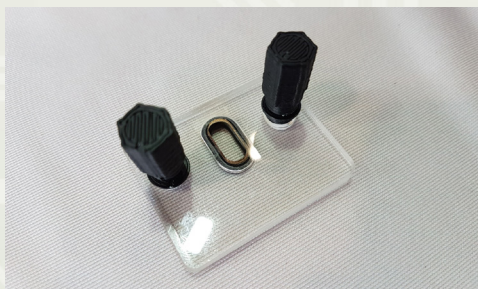
4.1.1.2 Ana Drop Adapter - Banana Plugs

Batch adaptor for Zimmer and Peacock sensors fabricated in Glass or Plastic depending on the application, with Banana connectors.

Ana Drop Adapter - Banana Plugs -- Cod. ZP040010002



4.1.1.3 Ana Drop Adapter - Top Plate Replacement



A replacement top plate for the Ana Pot Adapters.

Ana Drop Adapter Top Plate Replacement -- Cod. ZP040010003

4.1.2 Magnetic Bases

For biosensor applications involving magnetic beads.

4.1.2.1 Ana Drop Magnetic Adapter

The Ana Drop Magnetic Base applies a magnetic field through the test rig to the sensor, and draws the magnetic beads to the surface of the sensor.

Ana Drop Magnetic Adapter -- Cod. ZP040010004



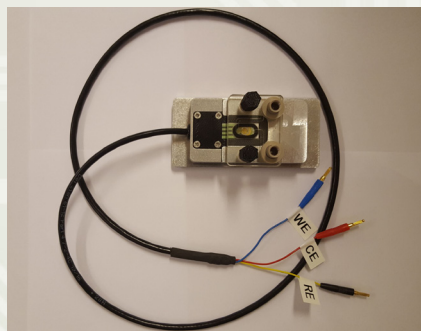
4.1.2.2 Ana Electro-Magnetic Base



The Ana Electro-Magnetic Base sits under the Ana Test Rig and applies a tuneable magnetic field through the test rig to the sensor, and draws the magnetic beads to the surface of the sensor. Unlike the magnetic base, this electro-magnetic base can be turned on and off, and is a tune-able magnetic field so the strength of the magnet can be varied, or switched from off to on or vice versa.

Ana Electro-Magnetic Base -- Cod. ZP040010005

4.1.2.3 Ana Flow Magnetic Adapter



The Ana Flow Magnetic Adapter allows the easy placement of the Zimmer and Peacock sensors within a flow stream, and the application of a magnetic field draws the beads to the sensor.

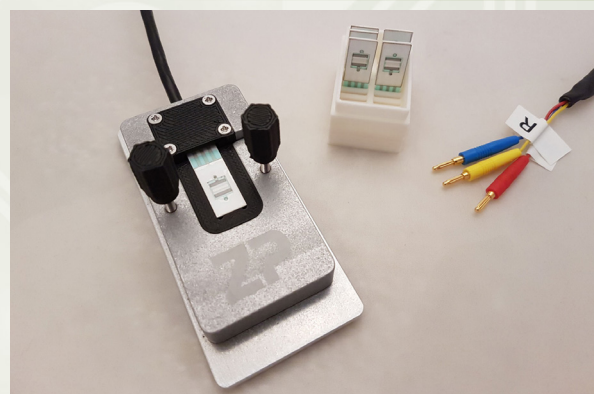
Ana Flow Magnetic Adapter -- Cod. ZP040010006

4.1.3 Ana Capillary Fill Adapter / Ana Sensor Adapter

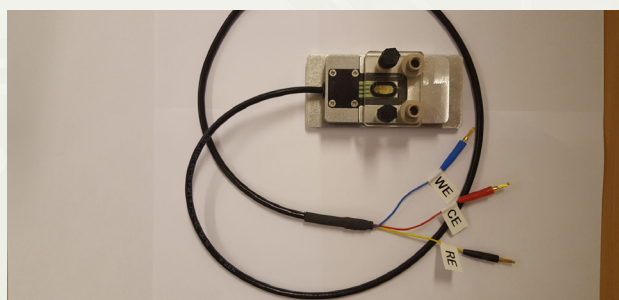
This adapter is specifically for our sensor and capillary fill sensors.

It is intended to connect to our Ana Pot potentiostat and provided a firm and solid connection between our sensors and the reader.

Ana Capillary Fill/Ana Sensor Adapter -- Cod. ZP040010007



4.1.4 Ana Flow Adapter



Flow adaptor for Zimmer and Peacock sensors. Fabricated in Glass, Plastic or PEEK, with Lemo or Banana connectors.

Ana Flow Adapter -- Cod. ZP040010008

4.1.5 Ana Pot Connector

This connector allows for specialist cable types to be made to the Ana Pot.



Ana Pot Connector -- Cod. ZP040010009

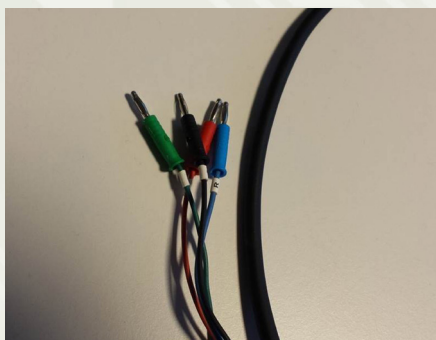
4.1.6 Ana Pot Test Rig Top Covers



Glass or Plastic Top Covers for Ana Pot Test Rigs, Drop or Flow.

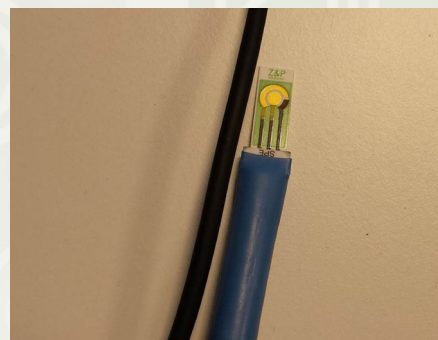
Ana Pot Test Rig Top Covers -- Cod. ZP040010010

4.1.7 Cable Sensors-to-Potentiostats

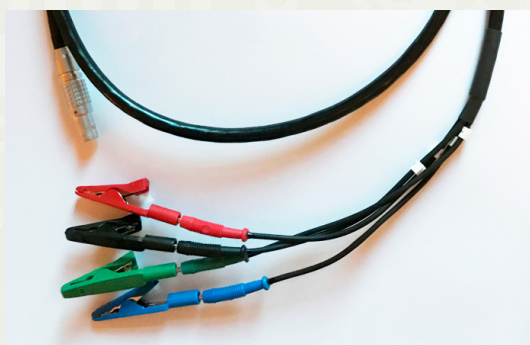


Cable for connecting sensor to potentiostat / control electronics.

Cable Sensors-to-Potentiostats-- Cod. ZP040010011



4.1.8 Ana Pot Generic Electrochemical Cell Cable



This cable plugs into the Ana Pot and allows you to make electrical connection with a generic electrochemical cell or sensor.

Ana Pot Generic Electrochemical Cell Cable-- Cod. ZP040010012

4.1.9 Ana Pot ZP Electrochemical Cell Cable



This cable plugs into the AnaPot and allows you to make electrical connection with ZP SPE..

*Ana Pot ZPElectrochemical Cell Cable
Cod. ZP040010013*



4.1.10 Dropsens Connector



Connector for Dropsens.

*Dropsens Connector
Cod. ZP040010014*





4.1 Sensor Adaptators

4.1.11 SPE Connectors

4.1.11.1 Three Way Biosensor Connectors

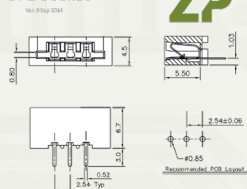
4.1.11.1.1 Straight Three Way Connectors



A pack of 10 Straight Connectors suitable for our SPE sensors.

Provides the interface between the ZP electrodes and your cable / PCB board.

SPE Socket



Pack of 10 SPE Straight Three Way Connectors -- Cod. ZP040010021

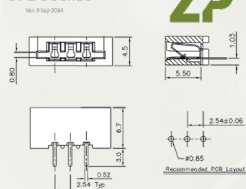
4.1.11.1.2 Angled Three Way Connectors



A pack of 10 Angled Connectors suitable for our SPE sensors.

Provides the interface between the ZP electrodes and your cable / PCB board.

SPE Socket



Pack of 10 SPE Angled Three Way Connectors -- Cod. ZP040010022

4.1.11.2 Four Way Biosensor Connectors

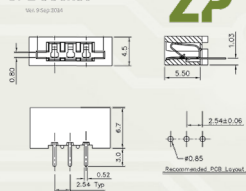
4.1.11.2.1 Straight Four Way Connectors



A pack of 10 Straight Connectors suitable for our SPE sensors.

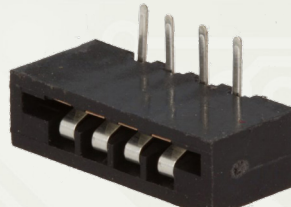
Provides the interface between the ZP electrodes and your cable / PCB board.

SPE Socket



Pack of 10 SPE Straight Four Way Connectors -- Cod. ZP040010023

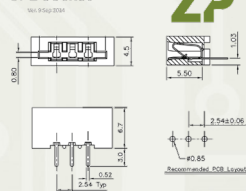
4.1.11.2.2 Angled Four Way Connectors



A pack of 10 Angled Connectors suitable for our SPE sensors.

Provides the interface between the ZP electrodes and your cable / PCB board.

SPE Socket



Pack of 10 SPE Angled Four Way Connectors -- Cod. ZP040010024

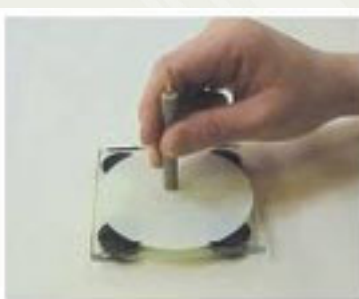
Mechanical Polishing

The working electrodes (WEs) of a selection of ZP electrodes can be mechanically polished by applying a slurry from the Zimmer and Peacock Electrode Polishing Kit onto the WE and gently polishing in a circular motion upon a polishing cloth.



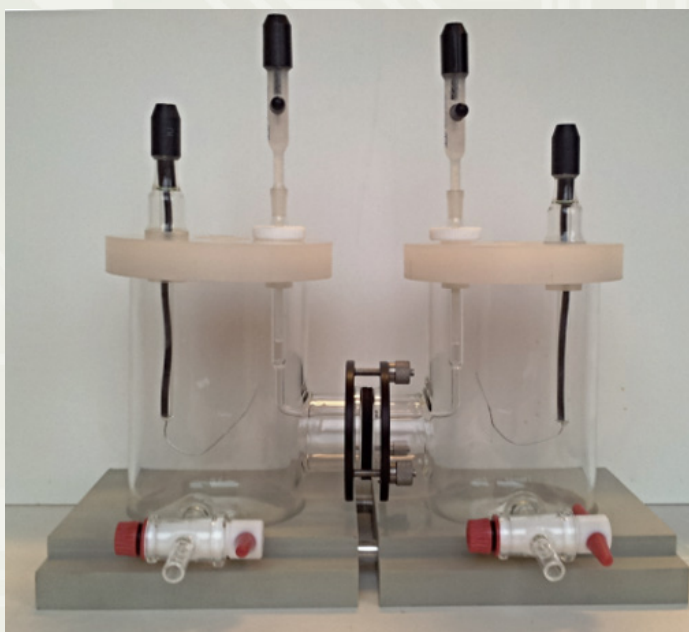
How to Use the Kit

- Prepare the glass plate, and put a few drops of polishing diamond on a wetted diamond polishing pad.
- Hold the CV electrode at right angle to the pad, and polish in a circular motion.
- Replace the diamond pad to an alumina polishing pad, put a few drops of polishing alumina, and polish the electrode to be mirror surface. Rinse the electrode surface with distilled water, and finish by air drying.
- Using a new alumina polishing pad, polish few times the electrode (for removing the alumina particles remaining on the electrode surface). Rinse the electrode surface with distilled water, and finish by air drying.



Electrode Polishing kit -- Cod. ZP040020001

4.3.1 Devanathan Cell



A Devanathan - Stachurski cell to measure hydrogen permeation. Note the Devanathan Cell comes with all parts shown in the picture, which includes, electrodes, o-rings etc. The main material of construction is glass and is intended for maximum chemical compatibility. Working volume in each side is approximately 1 Litre. The electrodes are platinum.

Devanathan Cell -- Cod. ZP040030001

4.3.2 Complete Electroanalytical Cell System

Zimmer and Peacock see that electroanalytical cells are complementary with the development of sensors, biosensors and medical diagnostics where the final sensor is expected to be disposable.



Complete Electroanalytical Cell System -- Cod. ZP040030002



4.3.3 Analytical Electrochemical Cell



The electrochemical analytical cell from Zimmer and Peacock is easy to use when conducting electrochemical experiments.

The screw on lid has been designed to hold the electrodes in place, at a consistent distances from each other, and so removes the need for a clamping etc.

The lack of clamps makes this an easy to use cell for laboratory and field applications.

The cell is made from PEEK so is suitable for high temperature applications up to 145C, and resistant to chemicals and solvents etc. It's a durable and so won't smash if dropped or knocked, unlike equivalent glass cells.

Please note the cell is also available in a transparent acrylic polymer version. This is a robust cell can be easily coupled with Zimmer and Peacock's Ana Pot and Ana Pot Extra Potentiostats, and the potentiostats from Zahner.



Analytical Electrochemical Cell -- Cod ZP040030003

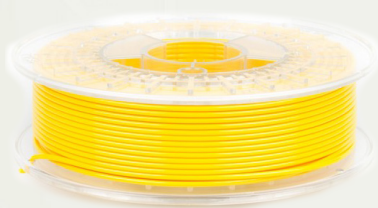
4.4 Sensor Adhesives



Double sided adhesives for modifying sensors. Zimmer and Peacock can manufacture specifically designed adhesive materials for our customers and collaborators.

Sensor Adhesives -- Cod. ZP040040001

4.5 Filaments for 3D Printing



Co-polyester based materials for FFF/FDM 3D printing.

Yellow, diameter 2.85mm, 750g reel.

Yellow Filaments for 3D Printing -- Cod. ZP040050001

4.6 Colorimetric Tests

4.6.1 pH Colorimetric Paper 1 / 14

Universal litmus paper. Easy to use. Provides reliable highly accurate pH readings. Test range: 1 - 14



pH Colorimetric Paper 1 / 14 -- Cod. ZP040060001

4.6.2 pH Colorimetric Paper 5.5 / 8

Universal litmus paper. Easy to use. Provides reliable highly accurate pH readings. Test Range: 5.5 - 8



pH Colorimetric Paper 5.5 / 8 -- Cod. ZP040060002

4.7 Bluetooth Relative Temperature and Humidity Sensor

Zimmer and Peacock see that the monitoring of temperature and humidity as an important factor in environmental monitoring for many applications in the science and engineering sectors. The Zimmer and Peacock Bluetooth RTH Sensor has embedded magnets so us able to attach to any ferrous surface. With free smart device app, for Android and iOS.



| Zimmer and Peacock Bluetooth RHT meter | |
|--|---------------|
| Temperature Range | -40 to 125 °C |
| Temperature Resolution | 0.015 °C |
| Temperature Accuracy 0 to 90 °C | ± 0.2 °C |
| Humidity Range | 0 - 100 % RH |
| Humidity Resolution | 0.01 %RH |
| Humidity Accuracy | ± 2.0 %RH |

*Bluetooth Relative Temperature and Humidity Sensor
Cod. ZP040070001*

4.8 Digital Voltmeter



A digital voltmeter for testing the integrity of electrodes.

*92000054 - Digital Voltmeter Cod.
ZP040080001*

5.1 Potassium Hexacyanoferrate

Zimmer and Peacock provides a standard solution of 5 mM potassium hexacyanoferrate (III) solution in 100 mM potassium chloride solution for testing your electrochemistry set up.

92000024 - Potassium Hexacyanoferrate (III) solution 100 mM potassium chloride -- Cod. ZP050010001

5.2 Glucose Calibration Solution

Zimmer and Peacock provide a pack of calibration solutions for testing your glucose sensors.

Glucose Calibration Solutions: 0 mM, 2 mM, 4 mM, 6 mM, 8 mM, 10 mM, 12 mM, 14 mM, 16 mM, 18 mM, 20 mM -- Cod. ZP050020001

5.3 Oxygen Calibration Solution

In the image, is tested a 'normal solution', i.e. a buffer exposed to the atmosphere and a buffer where the oxygen is reduced to zero. These zero oxygen test solution can be purchased by volume. The product allows you to test at 0 ppm oxygen and a normal dissolved oxygen levels (approx. 6 ppm). Comes with instructions.

Oxygen Sensor Calibration Solution pH 7.2 -- Cod. ZP050030001

5.4 Lactate Calibration Solution

Zimmer and Peacock provide a pack of calibration solutions for testing your lactate sensors. Each lactate concentration is provided in a 10 ml volume.

Lactate Calibration Solutions: 0 mM, 1 mM, 2 mM, 3 mM, 4 mM -- Cod. ZP050040001

5.5 Aero-Laser Solutions

Below are the 4 solutions necessary to run the Aero-Laser AL2021.

Fluorescent Reagent Solution -- Cod. ZP050050001

Stripping Solution -- Cod. ZP050050002

Sodium Hydroxide Solution -- Cod. ZP050050003

Hydrogen Peroxide Standard Stock Solution -- Cod. ZP050050004



6.1 ChilliPot - Scoville Meter



The ChilliPot is the world's first Scoville Meter designed to be used in situations where people want to quickly and reliably know the Scoville Units for their Chilli based product or Chilli Pepper. The meter is simple to use and can be used by growers, farmers, producers, manufacturers, and food technologists.. The ChilliPot is a completely objective test based on technology developed by

the University of Oxford in 2007, and is the fastest way of getting the Scoville Score.

6.1.1 ChilliPot - Starter Kit



This is the starter pack for anyone wanting to make Chilli hotness measurements and contains everything, but the cell phone, you need to get going, including 100 sensors.

ChilliPot - Starter Kit -- Cod. ZP060010001

6.1.2 Chilli Sensors



A single sensor per sample tested (dispose sensor after use).

Chilli Sensors -- Cod. ZP060010002

6.1.3 ChilliPot Buffer



The ChilliPot Buffer to be used with the ChilliPot. Note we use 4 ml of buffer for 1 g/1 ml of paste/sauce/pepper. We use 9 ml of buffer for 1 g of powder.

ChilliPot Buffer -- Cod. ZP060010003





