

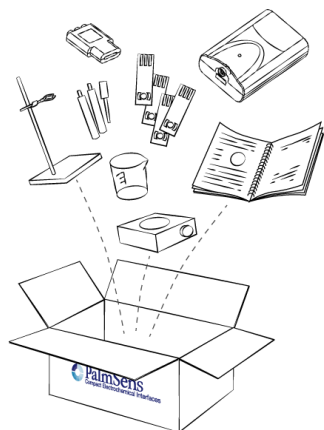


# Sensors Pricelist

## Content

PalmSens Educational Kit .....	2
ItalSens sensors .....	3
Screen Printed Electrodes .....	3
Classic Electrodes and Accessories .....	4
Working electrodes .....	4
Microelectrodes .....	4
Reference and Counter electrodes .....	4
Electrode accessoires .....	4
Corrosion Studie Accessories .....	5
BVT Sensors .....	6
Screen Printed Electrodes .....	6
Flow cells and glass cells .....	7
Classic electrodes .....	8
Accessories .....	9
BASi Electrodes .....	10
Working electrodes .....	10
Reference and Counter electrodes .....	10
Electrode accessoires .....	11
BST Sensors .....	12
CHI Electrodes and Cells .....	13
MicruX .....	14
Lan Printech .....	16
Rusens .....	18
PalmSens Sensor Accessories .....	19

## PalmSens Educational Kit



### PalmSens Educational Kit

The PalmSens Educational Kit is designed as the foundation for an electrochemistry course, lab class or similar teaching events. We combined our potentiostat with the necessary equipment and electrodes for a series of educational electrochemical experiments. To make sure that the instructor and students have the essential theoretical background for the experiments, we deliver a detailed teaching guide with the kit.

#### Experiments:

- Copper and Nickel Deposition
- The Cottrell Experiment
- Cyclic Voltammetry
- Detection of Multiple Heavy Metals by Stripping Voltammetry
- Glucose Biosensor
- Prussian Blue Hydrogen Peroxide Sensor

#### Content EDUKIT-1

- Retort stand with clamp
- Beaker
- Sensor connector
- Magnetic stirrer
- 20x BVT Gold Sensors [BVT-AC1.W1.R1] (see page 6)
- 20x IS-1 sensors (see page 3)
- 20x IS-HM sensors (see page 3)
- Pt disc working electrode (see page 4)
- Reference electrode (Ag/AgCl) (see page 4)
- Pt wire counter electrode (see page 4)
- Polishing tools (see page 13)
- Teacher's guide (a copy in paper and a pdf)
- Student's instructions (a copy and a pdf)

#### Additional in EDUKIT-2:

- Switchbox for magnetic stirrer control

*The educational kit should be combined with an EmStat or PalmSens potentiostat (not included in the price).*

**Order code:**  
**Price:**

**EDUKIT-1**  
**EUR 1065**

**EDUKIT-2**  
**EUR 1185**

*Ask PalmSens BV for multiple order discount*

## ItalSens sensors



### Screen Printed Electrodes



#### Screen Printed Electrodes

IS-1: ItalSens graphite sensors

IS-HM1: ItalSens sensors for heavy metals

	Graphite	Heavy metals
<b>Order code:</b>	<b>IS-1</b>	<b>IS-HM1</b>
<b>Price/unit &gt;400:</b>	<b>EUR 1,30</b>	<b>EUR 1,90</b>
<b>Price/unit 80-380:</b>	<b>EUR 1,50</b>	<b>EUR 2,20</b>
<b>Price/unit 20-60:</b>	<b>EUR 2,00</b>	<b>EUR 3,00</b>

**Order multiple for IS sensors: 20 units**



#### ItalSens SPE KIT

The ItalSens SPE KIT is meant to be combined with one of our potentiostats. Together they form a small and low cost electrochemical workstation. A simple retort stand with clamp, a magnetic stirrer (IS-SPEKIT2 also includes a switchbox for software controlled stirrer control) and a beaker are enough to perform various electrochemical experiments. The included ItalSens electrodes are suitable for many point-of-care applications and very popular. The electrodes offer a carbon and gold working electrode as well as an electrode modified for heavy metal detection. The complementary application notes booklet contains an application note for each of the electrodes.

##### Content IS-SPEKIT1:

- 20x ItalSens Graphite Sensors (see page 3)
- 20x BVT Gold Sensors [BVT-AC1.W1.R1] (see page 6)
- 20x ItalSens Sensors for Heavy Metals (see page 3)
- 1x Sensor connector for screen printed electrodes
- 1x Stand, clamp, magnetic stirrer, beaker
- 1x Application notes
- 1x Magnetic stirrer

##### Additional in IS-SPEKIT2

- 1x switchbox for magnetic stirrer control via software

<b>Order code:</b>	<b>IS-SPEKIT1</b>	<b>IS-SPEKIT2</b>
<b>Price:</b>	<b>EUR 390</b>	<b>EUR 510</b>

Handling fee for ItalSens Screen Printed Electrodes: EUR 30

## Classic Electrodes and Accessories


### Working electrodes

	Order Code:	Description:	Quantity:	Price:
	IS-2MM.AU-WE.1	Classic Metal Disc Electrode (Ø 2 mm, Au)	1 unit	EUR 120
	IS-2MM.AU-WE.3	Classic Metal Disc Electrode (Ø 2 mm, Au)	3 pack	EUR 312
	IS-2MM.PT-WE.1	Classic Metal Disc Electrode (Ø 2 mm, Pt)	1 unit	EUR 120
	IS-2MM.PT-WE.3	Classic Metal Disc Electrode (Ø 2 mm, Pt)	3 pack	EUR 312
	IS-2MM.AG-WE.1	Classic Metal Disc Electrode (Ø 2 mm, Ag)	1 unit	EUR 120
	IS-3MM.GC-WE.1	Classic Metal Disc Electrode (Ø 3 mm, Glassy Carbon)	1 unit	EUR 120
	IS-3MM.GC-WE.3	Classic Metal Disc Electrode (Ø 3 mm, Glassy Carbon)	3 pack	EUR 312

### Microelectrodes


	Order Code:	Description:	Quantity:	Price:
	IS-10UM.AU-WE.1	Ultramicro Metal Disc Electrode (Ø 10 µm, Au)	1 unit	EUR 196
	IS-10UM.AU-WE.3	Ultramicro Metal Disc Electrode (Ø 10 µm, Au)	3 pack	EUR 500
	IS-25UM.AU-WE.1	Ultramicro Metal Disc Electrode (Ø 25 µm, Au)	1 unit	EUR 196
	IS-25UM.AU-WE.3	Ultramicro Metal Disc Electrode (Ø 25 µm, Au)	3 pack	EUR 500
	IS-10UM.PT-WE.1	Ultramicro Metal Disc Electrode (Ø 10 µm, Pt)	1 unit	EUR 196
	IS-10UM.PT-WE.3	Ultramicro Metal Disc Electrode (Ø 10 µm, Pt)	3 pack	EUR 500
	IS-25UM.PT-WE.1	Ultramicro Metal Disc Electrode (Ø 25 µm, Pt)	1 unit	EUR 196
	IS-25UM.PT-WE.3	Ultramicro Metal Disc Electrode (Ø 25 µm, Pt)	3 pack	EUR 500


### Reference and Counter electrodes

	Order Code:	Description:	Quantity:	Price:
	IS-AG/AGCL.AQ.RE.1	Reference Electrode with Ag/AgCl in aqueous KCl	1 unit	EUR 40
	IS-AG/AGCL.AQ.RE.3	Reference Electrode with Ag/AgCl in aqueous KCl	3 pack	EUR 108
	IS-AG.NA.RE.1	Reference Electrode with Ag for non-aqueous solution	1 unit	EUR 40
	IS-AG.NA.RE.3	Reference Electrode with Ag for non-aqueous solution	3 pack	EUR 108
	IS-CAL.RE.1	Reference Electrode based on Calomel	1 unit	EUR 124
	IS-PT.W.CE.1	Counter Electrode made of Platinum Wire	1 unit	EUR 108
	IS-PT.W.CE.3	Counter Electrode made of Platinum Wire	3 pack	EUR 288
	IS-C.R.CE.5	Graphite Rod Counter Electrode (Ø 6 mm, 20 cm long)	5 pack	EUR 125

### Electrode accessoires


	Order Code:	Description:	Quantity:	Price:
	IS-MRS.1	Mini-Retort Stand including 4 glass cell (IS-GC)	1 unit	EUR 200


	<b>Order Code:</b>	<b>Description:</b>	<b>Quantity:</b>	<b>Price:</b>
	IS-SCS.1	Simple Cell Set combination of IS-GC.1, IS-TL.1 and IS-SCF.1	1 unit	EUR 68

	<b>Order Code:</b>	<b>Description:</b>	<b>Quantity:</b>	<b>Price:</b>
	IS-SCF.1	Simple Cell Foot	1 unit	EUR 30
	IS-GC.1	4 Glass Cells (25 mL) with ground joint lit	1 unit	EUR 8
	IS-TL.1	Lit for the glass cell made from Teflon	1 unit	EUR 30

Handling fee for ItalSens Classic Electrodes and Accessories: EUR 50

## Corrosion Studie Accessories

	<b>ItalSens Corrosion Cell Set</b>			
	<p>This Kit will provide you a standard corrosion cell with a sample holder for metal coupons exposing 1 cm diameter round area to the solution as well as the equipment for the Stern-Makrides arrangement. This cell is suitable for many common corrosion related measurements. The ItalSens Corrosion Cell Set contains:</p> <ul style="list-style-type: none"> <li>• 1 x 1 L glass vessel</li> <li>• 2 x graphite counter with holder</li> <li>• 1 x saturated calomel electrode with salt bridge</li> <li>• 1 x sample holder for flat coupons</li> <li>• 2 x platinum counter electrodes</li> <li>• 1 x parts for the Stern-Makrides arrangement</li> <li>• spare O-rings and Teflon parts</li> </ul>			
	<b>Order Code:</b>	<b>Price:</b>		
	IS-CCS	EUR 825		

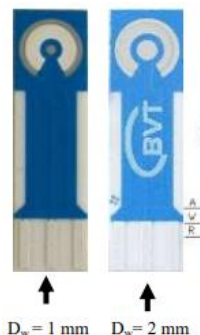
	<b>ItalSens Coating Evaluation Test Cell</b>			
	<p>This cell allows you to isolate a part of a metal sheet and perform an electrochemical characterization. With this setup different parts of the same metal sheet can be conveniently evaluated. The ItalSens Coating Evaluation Test Cell contains:</p> <ul style="list-style-type: none"> <li>• Cell body, base and cell top</li> <li>• Cell clamp</li> <li>• O-ring</li> </ul> <p>Recommended electrodes (not included):</p> <ul style="list-style-type: none"> <li>• Graphite Rod Counter Electrode (Ø 6 mm) [IS-C.R.CE.1]</li> <li>• Counter Electrode made of Platinum Wire [IS-PT.W.CE.1]</li> <li>• Reference Electrode with Ag/AgCl in aqueous KCl [IS-AG/AGCL.AQ.RE.1]</li> <li>• Reference Electrode based on Calomel [IS-CAL.RE.1]</li> </ul>			
	<b>Order Code:</b>	<b>Price:</b>		
	IS-CETC	EUR 265		

All items are available separately (prices on request).

Handling fee for ItalSens Corrosion Studie Accessories: on request.

## BVT Sensors

## Screen Printed Electrodes



## AC1 sensors:

Order code: BVT-AC1.W#.R#

Order multiple of AC1 sensors: 20 units

Default diameter of the working electrode is 1 mm. It is possible to extend this to 2 mm (add Dw = 2 in the order code). Order code: BVT-AC1.W#.R# Dw = 2.

BVT-AC1.	WS.	RS
	Au/Pt	AgPd (98%/2%)
	W1.	R1
	Au	Ag/AgCl (60%/40%)
	W2.	R2
	Pt	Chlorinated silver**
	W3.	
	Ag	
	W4.	
	C*	

Dw = 2 have the same price as the regular AC1.W#.R#.

Order code:

BVT-AC1.W#.R#

Price:

1,50 each for 260 or more

1,70 each for 20 to 240

\* Add EUR 0,40 to the price of each W4 sensor

\*\* Add EUR 0,70 to the price of each R2 sensor



## BVT Starter Kit

The BVT Starter Kit consists of twenty electrochemical sensors. The Starter Kit includes:

2x	AC1.W2.RS	2x	CC1.W2
2x	AC1.W2.R1 (dW = 2 mm)	2x	CC2.W2
2x	AC1.W4.R1 (dW = 2 mm)	2x	AC1.W3.RS
2x	AC1.W1.RS	2x	AC1P.W1.R1
2x	AC2.WS.R1	2x	AC1.WS.R2

Order code:

BVT-STK

Price:

EUR 54



## Immobilized sensors

The Acetylcholinesterase [BVT-AC1.AChE] and Glucose Oxidase [BVT-AC1.GOx] biosensors need to be shipped in a cooled box. Extra shipment charges apply depending on destination.

Order multiple of immobilized sensors: 20 units

Order code:

BVT-AC1.AChE

BVT-AC1.GOx

Price:

EUR 10,90

EUR 8,70

## Flow cells and glass cells



FC2.3 Flow cell (PMMA) for AC1 sensors  
FC4.3 Flow cell (PEEK) for AC1 sensors

Both available with a cable suitable for all our instruments  
Specify connector (Lemo or Triad), ask PalmSens BV

<b>Order code:</b>	<b>BVT-FC2.3-5T</b>	<b>BVT-FC4.3-5T</b>
	<b>BVT-FC2.3-4L</b>	<b>BVT-FC4.3-4L</b>
	<b>BVT-FC2.3-5L</b>	<b>BVT-FC4.3-5L</b>
<b>Price:</b>	<b>EUR 285</b>	<b>EUR 420</b>



## Glass cells

BVT-TC4: Standard small volume 20 ml cell with central opening (NJ 12/14) and four side openings (NJ 10/13).

BVT-TC5: Water jacketed 20 ml cell with central opening (NJ 12/14) and four side openings (NJ 10/13).

BVT-TC6: Special easily washable 20 ml cell with central opening (NJ 12/14) and four side openings (NJ 10/13).

Compatible stoppers for TC4, TC5 and TC6 cells:

- BVT-STP2.0: Plain stopper (EUR 3,00 / unit)
- BVT-STP2.1: Stopper for bubbling (EUR 17,00 / unit)
- BVT-STP2.2: Stopper with tubing (EUR 15,00 / unit)

<b>Order code:</b>	<b>BVT-TC4</b>	<b>BVT-TC5</b>	<b>BVT-TC6</b>
<b>Price:</b>	<b>EUR 170</b>	<b>EUR 195</b>	<b>EUR 195</b>



## KA1C.3 Cable for AC1 sensors used with TC4 cell

This connector fits just like a stopper into the side openings of TC4, TC5 and TC6.

<b>Order code:</b>	<b>BVT-KA1C.3-5T</b>
	<b>BVT-KA1C.3-4L</b>
	<b>BVT-KA1C.3-5L</b>
<b>Price:</b>	<b>EUR 140</b>



## Classic electrodes



## Working Classic Electrode Conic

WCEc. WS.D1: Platinum wire,  $\Phi$  100  $\mu\text{m}$   
 WS.D2: Platinum wire,  $\Phi$  600  $\mu\text{m}$   
 WS.D3: Platinum wire,  $\Phi$  1000  $\mu\text{m}$   
 W1.D4: Golden wire,  $\Phi$  20  $\mu\text{m}$

The plastic part of the electrode fits just like a stopper into the side openings of TC4, TC5 and TC6.

**Order code:** BVT- WCEc.Wn.Dn.ES  
**Price:** EUR 130



## Reference Classic Electrode Conic

RCEc. RS – Ag covered by AgCl  
 R1 – Ag

The plastic part of the electrode fits just like a stopper into the side openings of TC4, TC5 and TC6.

**Order code:** BVT- RCEc.Rn.ES  
**Price:** EUR 150



## Auxiliary classic electrode conic

ACEc is a glass tube with platinum plate wire.

The plastic part of the electrode fits just like a stopper into the side openings of TC4, TC5 and TC6.

**Order code:** BVT- ACEc.ES  
**Price:** EUR 150



## Miniature Oxygen Electrode

OE. D1: Platinum wire,  $\Phi$  100  $\mu\text{m}$   
 D2: Platinum wire,  $\Phi$  600  $\mu\text{m}$   
 D3: Platinum wire,  $\Phi$  1000  $\mu\text{m}$   
 D4: Golden wire,  $\Phi$  20  $\mu\text{m}$

**Order code:** BVT- OE.Dn.ES  
**Price:** EUR 250



### Calomel electrode

The reference system is Hg/HgCl<sub>2</sub> contacted by a platinum wire. The electrode can be delivered with a salt bridge.

The plastic part of the electrode fits just like a stopper into the side openings of TC4, TC5 and TC6.

**Order code:** BVT- CALEL

**Price:** EUR 140

**Order multiple:** 1 unit

## Accessories



### Mini rotating disk electrode

- with an USB connection
- openings are suitable for the connector KA1C.S

Set consists of:

- the mini Rotating disc electrode
- a TC4 glass cell
- control electronics and software

**Order code:** BVT- MRDE

**Price:** EUR 3.350



### Minithermostat

Fast sample cooling/heating (from -9,9°C to 59,9°C with accuracy 0,1°C). For use with TC4, TC6.

**Order code:** BVT-MT1

**Price:** EUR 1.250



### Stirrer ST2

- brushed motor
- control via PalmSens or EmStat Blue potentiostat
- supply voltage 3 V and current max 100 mA
- Revolutions range: 100 – 1000 rpm
- easily plugged into TC4, TC5 or TC6 central opening
- fits just like a stopper into the centre openings of TC4, TC5 and TC6

**Order code:** BVT-ST2

**Price:** EUR 380

Handling fee for BVT sensors and accessories: EUR 30

## BASi Electrodes









## Working electrodes

	Order Code:	Description:	Quantity:	Price:
	BASI-MF-2012	Glassy Carbon Electrode - 3.0mm diameter	1 unit	EUR 225
	BASI-MF-2013	Platinum Electrode (Pt) - 1.6 mm diameter (1.651mm-1.626mm), 99.95% purity	1 unit	EUR 270
	BASI-MF-2014	Gold Electrode (Au) - 1.6 mm diameter (1.651mm-1.626mm), 99.95% purity	1 unit	EUR 270
	BASI-MF-2113	Platinum Electrode (Pt) - 3.0 mm diameter (2.997mm-2.972mm), 99.95% purity	1 unit	EUR 320
	BASI-MF-2114	Gold Electrode (Au) - 3.0 mm diameter (2.997mm-2.972mm), 99.95% purity	1 unit	EUR 320
	BASI-MW-4132	Platinum mesh electrode. 2.0 cm x 2.0 cm , 0.1 mm wire diameter, 99.9% purity	1 unit	EUR 685

## Reference and Counter electrodes

	Order Code:	Description:	Quantity:	Price:
	BASI-MF-2052	RE-5B Ag/AgCl (3M NaCl) Reference Electrode with Flexible Connector	1 unit	EUR 90
	BASI-MF-2056	RE-5B Ag/AgCl (3M KCl) Reference Electrode with Flexible Connector	1 unit	EUR 90
	BASI-MW-2030	RE-6 Reference Electrode with Flexible Connector	1 unit	EUR 80
	BASI-MF-2062	Non-Aqueous Reference Electrode Kit - Ag/Ag+	1 unit	EUR 220
	BASI-MW-1032	Platinum Wire Auxiliary Electrode	1 unit	EUR 180
	BASI-MW-1033	Coiled Platinum Wire Auxiliary Electrode	1 unit	EUR 270

## Electrode accessoires

	Order Code:	Description:	Quantity:	Price:
	BASI-MF-2060	PK-4 Electrode Polishing Kit	1 unit	EUR 195
	BASI-CF-1050	Polishing Alumina, 0.05 $\mu\text{m}$ , 7 mL	1 unit	EUR 15
	BASI-MR-5275	Reference Electrode Storage Vial with Cap	1 unit	EUR 7
	BASI-MF-2042	Reference electrode glass body and CoralPor membrane	1 unit	EUR 40
	BASI-MF-2064	1/8" Chunks Porous CoralPor w-1/2" Tubes	1 unit	EUR 120

BASi Handling costs: on request

## BST Sensors



When quality in  
diagnostics counts

**Thick film sensors**

Order multiple of BST sensors: 20 units

**BST-100:** WE C, RE/CE: Ag/AgCl

**Order code:** **BST-100**

**Price/unit** **EUR 7,50**

**BST-120:** WE Pt, CE: Pt, RE: Ag

**Order code:** **BST-120**

**Price/unit** **EUR 6,24**

**BST-121:** WE Au, CE Pt, RE Ag/Ag/Cl

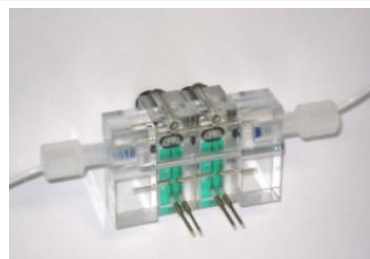
**Order code:** **BST-121**

**Price/unit** **EUR 8,28**

**BST-154:** WE Au, RE/CE Ag/AgCl

**Order code:** **BST-154**

**Price/unit** **EUR 8,28**

**BST Flow Cells:**

1411 Flow cell for BST thickfilm electrodes (2- and 3-electrode system)

1412 Extension module for BST flow cell for thickfilm electrodes (3-electrode system)

**Order code:** **BST-FC2 (1411)**

**Prices:** **EUR 552**

**BST-FC3 (1411)**

**EUR 324**

Handling fee for BST sensors: EUR 30



## CHI Electrodes and Cells

Order code:	Description:	Quantity:	Price:
CHI101	2 mm dia. Gold Working Electrode	1 unit	EUR 150
CHI101P	2 mm dia. Gold Working Electrode	3 pack	EUR 390
CHI102	2 mm dia. Platinum Working Electrode	1 unit	EUR 150
CHI102P	2 mm dia. Platinum Working Electrode	3 pack	EUR 390
CHI103	2 mm dia. Silver Working Electrode	1 unit	EUR 150
CHI104	3 mm dia. Glassy Carbon Working Electrode	1 unit	EUR 150
CHI104P	3 mm dia. Glassy Carbon Working Electrode	3 pack	EUR 390
CHI105	10 $\mu$ m Gold Microelectrode	1 unit	EUR 245
CHI105P	10 $\mu$ m Gold Microelectrode	3 pack	EUR 625
CHI106	25 $\mu$ m Gold Microelectrode	1 unit	EUR 245
CHI106P	25 $\mu$ m Gold Microelectrode	3 pack	EUR 625
CHI107	10 $\mu$ m Platinum Microelectrode	1 unit	EUR 245
CHI107P	10 $\mu$ m Platinum Microelectrode	3 pack	EUR 625
CHI108	25 $\mu$ m Platinum Microelectrode	1 unit	EUR 245
CHI108P	25 $\mu$ m Platinum Microelectrode	3 pack	EUR 625

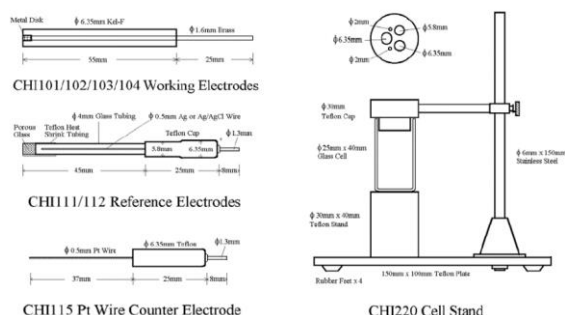
### Reference electrodes, auxiliary electrodes, cells... etc.,

CHI111	Ag/AgCl Aqueous Reference Electrode	1 unit	EUR 49
CHI111P	Ag/AgCl Aqueous Reference Electrode	3 pack	EUR 135
CHI112	Non-Aqueous Ag/Ag <sup>+</sup> Reference Electrode	1 unit	EUR 49
CHI112P	Non-Aqueous Ag/Ag <sup>+</sup> Reference Electrode	3 pack	EUR 135
CHI150	Calomel Reference Electrode	1 unit	EUR 155
CHI115	Platinum Wire Counter Electrode	1 unit	EUR 135
CHI115P	Platinum Wire Counter Electrode	3 pack	EUR 360
CHI120	Electrode Polishing Kit	1 unit	EUR 120

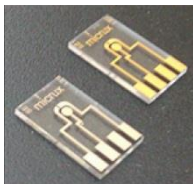
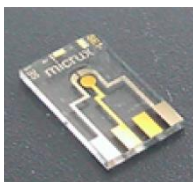
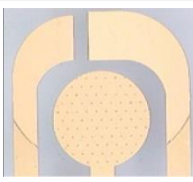


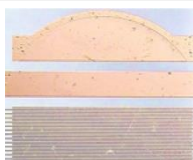
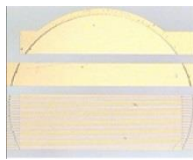
### Cell

CHI220	Simple Cell Stand	1 unit	EUR 250
CHI221	Cell Top (including Pt wire counter electrodes)	1 unit	EUR 75
CHI222	Glass cell	1 unit	EUR 10
CHI223	Teflon cap	1 unit	EUR 50

### Accessories and Instrument Chasis



Handling fee for CHI sensors and accessories: EUR 30

	<p>Thin-film Platinum or Gold single electrodes MOQ: 50 units</p> <table><tr><td><b>Order code:</b></td><td><b>ED-SE1-Au</b></td><td><b>ED-SE1-Pt</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 5,30</b></td><td><b>EUR 5,30</b></td></tr></table>	<b>Order code:</b>	<b>ED-SE1-Au</b>	<b>ED-SE1-Pt</b>	<b>Price:</b>	<b>EUR 5,30</b>	<b>EUR 5,30</b>			
<b>Order code:</b>	<b>ED-SE1-Au</b>	<b>ED-SE1-Pt</b>								
<b>Price:</b>	<b>EUR 5,30</b>	<b>EUR 5,30</b>								
	<p>Thin-film double-metal single electrodes (WE: Au / AE-RE: Pt) MOQ: 20 units</p> <table><tr><td><b>Order code:</b></td><td><b>ED-SE1-AuPt</b></td><td></td></tr><tr><td><b>Price:</b></td><td><b>EUR 7,90</b></td><td></td></tr></table>	<b>Order code:</b>	<b>ED-SE1-AuPt</b>		<b>Price:</b>	<b>EUR 7,90</b>				
<b>Order code:</b>	<b>ED-SE1-AuPt</b>									
<b>Price:</b>	<b>EUR 7,90</b>									
	<p>Thin-film Platinum or Gold microelectrode array MOQ: 50 units</p> <table><tr><td><b>Order code:</b></td><td><b>ED-mSE-5-Au</b></td><td><b>ED-mSE-5-Pt</b></td></tr><tr><td></td><td><b>ED-mSE-10-Au</b></td><td><b>ED-mSE-10-Pt</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 5,80</b></td><td><b>EUR 5,80</b></td></tr></table>	<b>Order code:</b>	<b>ED-mSE-5-Au</b>	<b>ED-mSE-5-Pt</b>		<b>ED-mSE-10-Au</b>	<b>ED-mSE-10-Pt</b>	<b>Price:</b>	<b>EUR 5,80</b>	<b>EUR 5,80</b>
<b>Order code:</b>	<b>ED-mSE-5-Au</b>	<b>ED-mSE-5-Pt</b>								
	<b>ED-mSE-10-Au</b>	<b>ED-mSE-10-Pt</b>								
<b>Price:</b>	<b>EUR 5,80</b>	<b>EUR 5,80</b>								
	<p>Thin-film Platinum or Gold interdigitated electrodes electrode width 10 <math>\mu\text{m}</math> electrode distance 10 <math>\mu\text{m}</math> MOQ: 50 units</p> <table><tr><td><b>Order code:</b></td><td><b>ED-IDE1-Au</b></td><td><b>ED-IDE1-Pt</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 6,30</b></td><td><b>EUR 6,30</b></td></tr></table>	<b>Order code:</b>	<b>ED-IDE1-Au</b>	<b>ED-IDE1-Pt</b>	<b>Price:</b>	<b>EUR 6,30</b>	<b>EUR 6,30</b>			
<b>Order code:</b>	<b>ED-IDE1-Au</b>	<b>ED-IDE1-Pt</b>								
<b>Price:</b>	<b>EUR 6,30</b>	<b>EUR 6,30</b>								
	<p>Thin-film Platinum or Gold interdigitated electrodes electrode width IDE2 10 <math>\mu\text{m}</math>, IDE3 5 <math>\mu\text{m}</math> electrodes distance 5 <math>\mu\text{m}</math> MOQ: 50 units</p> <table><tr><td><b>Order code:</b></td><td><b>ED-IDE2-Au</b></td><td><b>ED-IDE2-Pt</b></td></tr><tr><td></td><td><b>ED-IDE3-Au</b></td><td><b>ED-IDE3-Pt</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 7,40</b></td><td><b>EUR 7,40</b></td></tr></table>	<b>Order code:</b>	<b>ED-IDE2-Au</b>	<b>ED-IDE2-Pt</b>		<b>ED-IDE3-Au</b>	<b>ED-IDE3-Pt</b>	<b>Price:</b>	<b>EUR 7,40</b>	<b>EUR 7,40</b>
<b>Order code:</b>	<b>ED-IDE2-Au</b>	<b>ED-IDE2-Pt</b>								
	<b>ED-IDE3-Au</b>	<b>ED-IDE3-Pt</b>								
<b>Price:</b>	<b>EUR 7,40</b>	<b>EUR 7,40</b>								
	<p>Thin-film Platinum or Gold interdigitated array microelectrodes (10 <math>\mu\text{m}</math>) MOQ: 50 units</p> <table><tr><td><b>Order code:</b></td><td><b>ED-IDA1-Au</b></td><td><b>ED-IDA1-Pt</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 5,30</b></td><td><b>EUR 5,30</b></td></tr></table>	<b>Order code:</b>	<b>ED-IDA1-Au</b>	<b>ED-IDA1-Pt</b>	<b>Price:</b>	<b>EUR 5,30</b>	<b>EUR 5,30</b>			
<b>Order code:</b>	<b>ED-IDA1-Au</b>	<b>ED-IDA1-Pt</b>								
<b>Price:</b>	<b>EUR 5,30</b>	<b>EUR 5,30</b>								
	<p>Thin-film Platinum or Gold interdigitated array microelectrodes (5 <math>\mu\text{m}</math>) MOQ: 50 units</p> <table><tr><td><b>Order code:</b></td><td><b>ED-IDA5-Au</b></td><td><b>ED-IDA6-Au</b></td></tr><tr><td></td><td><b>ED-IDA5-Pt</b></td><td><b>ED-IDA6-Pt</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 6,30</b></td><td><b>EUR 6,30</b></td></tr></table>	<b>Order code:</b>	<b>ED-IDA5-Au</b>	<b>ED-IDA6-Au</b>		<b>ED-IDA5-Pt</b>	<b>ED-IDA6-Pt</b>	<b>Price:</b>	<b>EUR 6,30</b>	<b>EUR 6,30</b>
<b>Order code:</b>	<b>ED-IDA5-Au</b>	<b>ED-IDA6-Au</b>								
	<b>ED-IDA5-Pt</b>	<b>ED-IDA6-Pt</b>								
<b>Price:</b>	<b>EUR 6,30</b>	<b>EUR 6,30</b>								

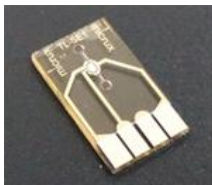




#### Thin-film Platinum or Gold interdigitated ring array microelectrodes (10 $\mu$ m)

MOQ: 50 units

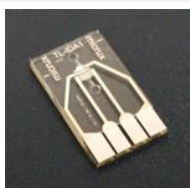
<b>Order code:</b>	<b>ED-IDRA1-Au</b>	<b>ED-IDRA1-Pt</b>
<b>Price:</b>	<b>EUR 5,30</b>	<b>EUR 5,30</b>



#### Thin-layer microfluidic Platinum or Gold single electrodes (based on ED-SE1)

MOQ: 20 units

<b>Order code:</b>	<b>TL-SE1-Au</b>	<b>TL-SE1-Pt</b>
<b>Price:</b>	<b>EUR 18,90</b>	<b>EUR 18,90</b>



#### Thin-layer microfluidic Platinum or Gold interdigitated electrodes with counter and reference electrode (based on ED-IDA)

MOQ: 20 units

<b>Order code:</b>	<b>TL-IDA1-Au</b>	<b>TL-IDA1-Pt</b>
<b>Price:</b>	<b>EUR 21,00</b>	<b>EUR 21,00</b>



#### Drop-cell connector

This connector of the All-in-one cell is necessary to use the electrodes produced by Micrux. Just put the drop and measure. Supplied with a universal cable compatible with PalmSens3, PalmSens4 and the EmStat series.

<b>Order code:</b>	<b>ED-DROP-CELL</b>
<b>Price:</b>	<b>EUR 195</b>



#### All-in-one cell

This is a multipurpose interface with interchangeable add-ons for using Micrux electrodes. It is a Drop Cell base with two different add-ons: one for using it as a Flow Cell and the other one for using it in batch with higher volumes. Drop Cell base + one add on [ED-AIO-CELL-1x]. Drop Cell base + two add ons [ED-AIO-CELL-2x].

<b>Order code:</b>	<b>ED-AIO-ADD-ONS</b>	<b>ED-AIO-CELL-1x /</b> <b>ED-AIO-CELL-2x</b>
<b>Price:</b>	<b>EUR 255</b>	<b>EUR 740 / EUR 915</b>

Handling fee for MicruX sensors: EUR 30



## Lan Printech



For illustration purposes only

## Lan Printech electrodes

Generic order code system for Lan Printech Electrodes:

PREFIX	No. of elements	Design	Substrate	Thickness
[LP]-	[2]. or [3].	[##].	[XX].	[###]

**No. of elements:** [2] = CE/RE combined + WE  
[3] = CE + RE + WE

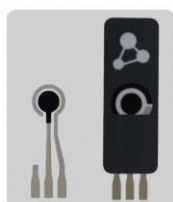
**Design:** PalmSens BV offers a selection of Lan Printech electrodes in this catalog. However we could offer all available configurations. See <http://www.lanprintech.com/es-electrodos/> for all available designs.

**Substrate and Thickness** (microns)

White Pet	Transparant Pet	Paper	Alumina*
[WP]	[TP]	[PA]	[AL]
250	125	350	500
300	175		
350			
500			

\* Alumina substrate + EUR 0,60 / electrode  
Bold is default thickness.

Order multiple of standard LP sensors: 48 units

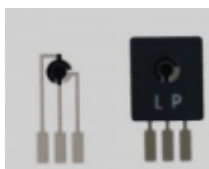


Design: 02

## Two electrode elements

The LP-2.02.XX.### has a carbon working electrode and a combined reference and counter electrode made from silver.

**Order code:** LP-2.02.XX.###      LP-2.02.AL.500  
**Price:** EUR 1,54 / unit      EUR 2,14 / unit

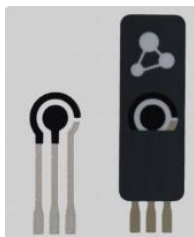


Design: 01

## Three electrode elements

The LP-3.01.XX.### has a carbon working electrode, a carbon counter electrode and a reference electrode made from silver.

**Order code:** LP-3.01.XX.###      LP-3.01.AL.500  
**Price:** EUR 1,62 / unit      EUR 2,22 / unit

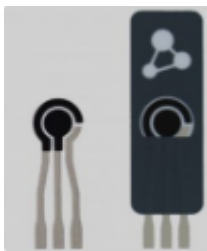


Design: 13

**Three electrode elements**

The LP-3.13.XX.### has a carbon working electrode, a carbon counter electrode and a reference electrode made from silver.

<b>Order code:</b>	<b>LP-3.13.XX.###</b>	<b>LP-3.13.AL.500</b>
<b>Price:</b>	<b>EUR 1,52 / unit</b>	<b>EUR 2,12 / unit</b>

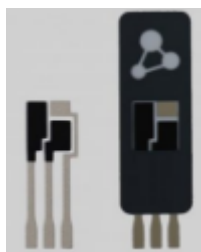


Design: 15

**Three electrode elements**

The LP-3.15.XX.### has a carbon working electrode, a carbon counter electrode and a reference electrode made from silver.

<b>Order code:</b>	<b>LP-3.15.XX.###</b>	<b>LP-3.15.AL.500</b>
<b>Price:</b>	<b>EUR 1,52 / unit</b>	<b>EUR 2,12 / unit</b>



Design: 23

**Three electrode elements**

The LP-3.23.XX.### has a carbon working electrode, a carbon counter electrode and a reference electrode made from silver.

<b>Order code:</b>	<b>LP-3.23.XX.###</b>	<b>LP-3.23.AL.500</b>
<b>Price:</b>	<b>EUR 1,52 / unit</b>	<b>EUR 2,12 / unit</b>



Design: 12D1

**Three electrode elements**

The LP-3.12D1.XX.###, formerly known as GG1 under the Gwent Group brand, has a carbon working electrode, a carbon counter electrode and a reference electrode made from silver.

<b>Order code:</b>	<b>LP-3.12D1.XX.###</b>	<b>LP-3.12D1.AL.500</b>
<b>Price:</b>	<b>EUR 2,30 / unit</b>	<b>EUR 2,90 / unit</b>



Design: 12D2

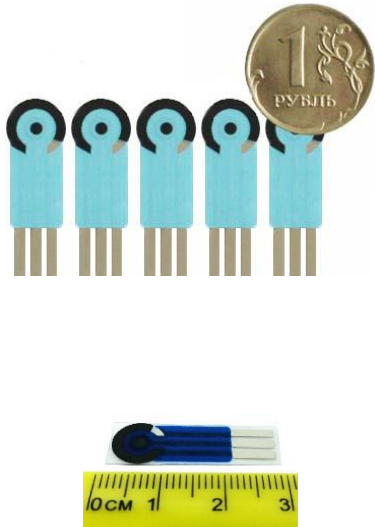
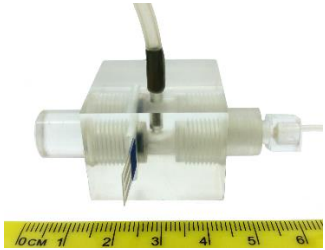

**Three electrode elements**

The LP-3.12D2.XX.###, formerly known as GG2 under the Gwent Group brand, has a carbon working electrode, a carbon counter electrode and a reference electrode made from silver.

<b>Order code:</b>	<b>LP-3.12D2.XX.###</b>	<b>LP-3.12D2.AL.500</b>
<b>Price:</b>	<b>EUR 2,30 / unit</b>	<b>EUR 2,90 / unit</b>

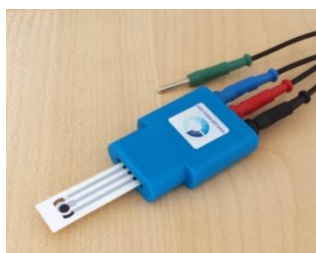
Rusens

**RUSENS Ltd.**

	<p>Unmodified 3-electrode structure sensors</p> <p><b>Order code:</b> RUS-UNMOD</p> <p><b>Price/unit</b> 1,20 each for 1 to 50 1,10 each for &gt;51</p> <p>Prussian blue based H<sub>2</sub>O<sub>2</sub> sensors</p> <p><b>Order code:</b> RUS-PRUS</p> <p><b>Price/unit</b> 4,35</p> <p>Superstable H<sub>2</sub>O<sub>2</sub> sensors</p> <p><b>Order code:</b> RUS-SUP</p> <p><b>Price/unit</b> 10,80</p> <p>Glucose sensors</p> <p><b>Order code:</b> RUS-GLUC</p> <p><b>Price/unit</b> 6,60</p> <p>Lactate sensors</p> <p><b>Order code:</b> RUS-LACT</p> <p><b>Price/unit</b> 8,80</p>									
	<p>FTWJ: Flow-through wall-jet cell for Rusens sensors optional with flow damper</p> <table><tr><td><b>Order code:</b></td><td><b>RUS-FTWJ</b></td><td><b>RUS-FTWJ/FD</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 300</b></td><td><b>EUR 420</b></td></tr><tr><td></td><td></td><td><i>Inc. flow damper</i></td></tr></table>	<b>Order code:</b>	<b>RUS-FTWJ</b>	<b>RUS-FTWJ/FD</b>	<b>Price:</b>	<b>EUR 300</b>	<b>EUR 420</b>			<i>Inc. flow damper</i>
<b>Order code:</b>	<b>RUS-FTWJ</b>	<b>RUS-FTWJ/FD</b>								
<b>Price:</b>	<b>EUR 300</b>	<b>EUR 420</b>								
		<i>Inc. flow damper</i>								
	<p>Batch cell for Rusens sensors:</p> <table><tr><td><b>Order code:</b></td><td><b>RUS-BC</b></td></tr><tr><td><b>Price:</b></td><td><b>EUR 120</b></td></tr></table>	<b>Order code:</b>	<b>RUS-BC</b>	<b>Price:</b>	<b>EUR 120</b>					
<b>Order code:</b>	<b>RUS-BC</b>									
<b>Price:</b>	<b>EUR 120</b>									

Handling fee for Rusens sensors: EUR 50

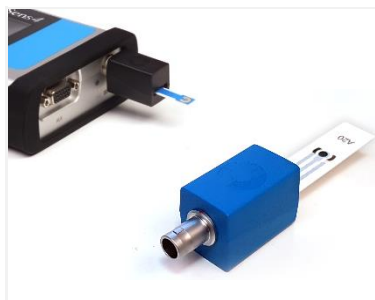
## PalmSens Sensor Accessories



### Universal sensor connector for Screen Printed Electrodes

Universal sensor connector with 3 banana receptacles [PS-CONN-2MM] and a connection for the screen printed electrodes from BST, BVT, ItalSens, Rusens, Lan Printech as well as DropSens. We also have converters available from 2 mm to 4 mm banana receptacles [PS-CONN-4MM].

Order code:	PS-CONN-2MM	PS-CONN-4MM
Price:	EUR 20	EUR 30



### Universal sensor connector for Screen Printed Electrodes

Universal sensor connector with LEMO connector (for a direct connection to PalmSens or EmStat) and a connection for the screen printed electrodes from BST, BVT, ItalSens, Rusens, Lan Printech as well as DropSens.

Order code:	PS-CONN-4L	PS-CONN-5L
Price:	EUR 60	EUR 60

Please do not hesitate to contact PalmSens for more details:  
[info@palmsens.com](mailto:info@palmsens.com)

**PalmSens BV**  
**The Netherlands**  
[www.palmsens.com](http://www.palmsens.com)

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