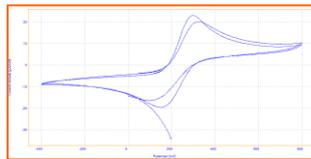


# OGS100

**P**otentiostat **G**alvanostat **I**mpedancemeter  
**±17.5 V** **±1 nA** to **±100 mA** **USB**



**C**omplete  
**C**ompact  
**T**ransportable

**I**ncluded:  
**2** pH  
measurements  
inputs

**A**nalog I/O : Ultra  
Low Current and  
Booster (I/V)

**R**otating Electrode  
Speed Controller

**D**elivered:  
With PC software  
**OrigaMaster**

**O**ptional:  
**M**agnetic Stirrer

**L**ighted and  
Removable Cell

**B**eaker Holder  
Height Adjustable

**R**esearch  
**C**orrosion  
**C**ells & **B**atteries  
**C**oating / **P**lating  
**U**ltra **L**ow **C**urrent  
**N**ano **T**echnology  
**S**ensors / **B**iology  
**E**ducation

## INPUTS / OUTPUTS

### Front panel

**POWER:** 6-pin mini DIN, motor servo-controlling (rotating electrode stirrers...)

**WORK:** BNC, working electrode

**REF:** BNC, reference electrode

**SENSE:** (Ref2): BNC, 4-pole measurement cell or second reference electrode

**AUX:** BNC, auxiliary electrode

**°C:** RCA, temperature measurement

**GND:** banana  $\varnothing$ 4 mm protected ground, Faraday cage

**E2/E2:** pH measurement

### Rear panel

**Analog I/O:** 8-pin DIN, for connection of Ultra Low Current Probe and Booster (current / voltage)

**COM1:** RS232C

**COM2/3:** RS232C, 2 serial ports (configurable as logical I/Os) for external devices control.

## SPECIFICATIONS

### General specifications

Auxiliary voltage:  $\pm 17.5$  V

Maximum current:  $\pm 100$  mA

Applied voltage:  $\pm 5$  V

### Current measurement

9 ranges from 1 nA to 100 mA

Best resolution 30 fA

Auto ranging configurable

Acquisition speed: 1 Million samples / second

### Scanning performances

Acquisition times  $\geq 100$   $\mu$ s

### Ohmic drop compensation

"Feed-back" manual or automatic

### Electrochemical impedance

#### (EIS)

10  $\mu$ Hz to 1 KHz

10  $\mu$ Hz to 5 MHz with OGF FRA Unit

20 frequencies / decade

Applied potential step resolution 200  $\mu$ V for 1 V

### Power supply

90 to 264 Vac – 47 to 63 Hz – 30 VA

Or 24 V battery

Or 12 V battery using a converter



### Dimensions

Width:

13.5 cm (folded up feet)

24.7 cm (unfolded feet)

Depth: 32.6 cm

Height: 41.8 cm

Weight: 5.5 kg

### EC marking

Compliance with the following regulations: EMC 2004/108/EC according to the standards N61326-1, 2011/65/EU – (RoHS 2)

### Environmental conditions

Working temperature: 5 to 40°C

Relative humidity: 20 to 80 %

### Accessories

OrigaLys ElectroChem is capable to provide a whole range of electrodes, corrosion cells and accessories: please consult us or visit our website.

**OGS100** can be connected to:

#### OrigaM $\mu$



**1pA Range with 30aA resolution**

#### OrigaBoost



**From 20 V / 5 A To 20 V / 20 A**

#### OGFEIS



**FRA Unit Impedance 10  $\mu$ Hz – 5 MHz**

## OrigaLys ElectroChem

**MORE INFO:**  
[www.origalys.com](http://www.origalys.com)

facebook

Les Verchères 2  
62A avenue de l'Europe  
69140 RILLIEUX-la-PAPE  
FRANCE

+33 (0)9 54 17 56 03

+33 (0)9 59 17 56 03