PACK OGF500

Potentiostat – Galvanostat

±5 nA to ±500 mA / ±15 V / ±20 V

OGFPWR POWER SUPPLY
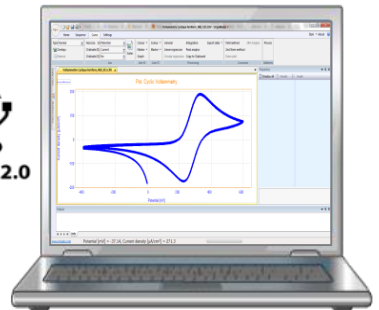
OGF500 POTENTIOSTAT GALVANOSTAT

OrigaMaster

USB 2.0

Licence free software Windows XP, Vista, 7, 8 and 10.

Origalys Electrochem

GARANTIE INSTRUMENT
5 ANS YEARS AÑOS
INSTRUMENT WARRANTY

Included in the Pack

All in one concept and Ready to use

1 Power Supply - OGFPWR

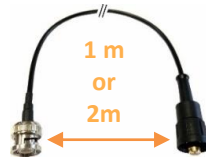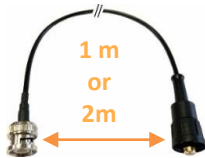**It supplies current to one Potentiostat OGF500**

Technical specifications:
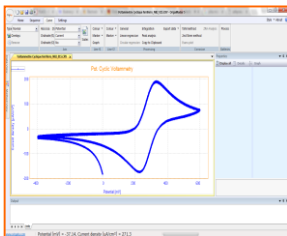Power: 100-240Vac – 50-60Hz – 1KVA
Weight: 3.10 kg
Dimensions (Length x Width x Height): 28.5 x 8.3 x 24.15 cm

2 Potentiostat & Galvanostat – OGF500 and its cords

1 m or 2m   **1 m or 2m**   **1 m or 2m**

The pack includes cords to connect 2, 3 or 4 Electrodes

OrigaLys customizes the cords for you, please ask us!

3 PC Software – OrigaMaster 5

1. **Graphic programming concept**
2. **User friendly**
3. **Windows Interface**

Methods included:
Chrono: Pot. and Gal. CV, Staircase, CA, CC, CP
Pulse: DPV, SWV, GPV
Batteries: Charge/Discharge, Constant Power, Profile Generator, Internal Resistance, PITT, GITT
Corrosion: Pitting, Rp, Evans, Tafel

Extra Methods if connected to the OGFEIS:
EIS: Gal. and Pot. Dynamic, Mott-Schottky

USB 2.0

See the full list of methods on www.origalys.com

OGF500

The OGF500 combines compactness, performance and accurate price. It is a 500 mA potentiostat/galvanostat which can be complemented by one Impedance module OGFEIS.

His handle allows you to carry it easily and everywhere.

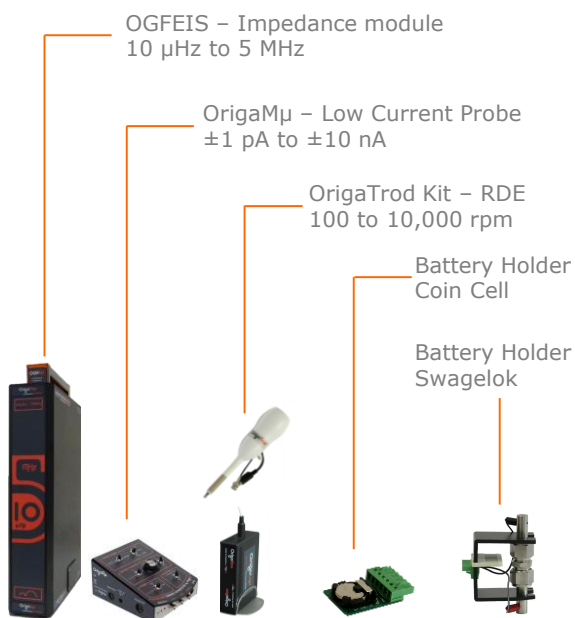Connected to a Drive Unit OGFDRV, it becomes a Multi-Channel system.

Built-in modularity:

1. Standalone Potentiostat & Galvanostat
2. Temperature measurement
3. Battery Holder Connector
4. Analog I/O to connect external devices
5. USB control

Main Technical Specifications

Electrode connections	2, 3 and 4
Max applied potential	±15 V
Compliance voltage	±20 V
Maximum current	±500 mA
Current ranges	±5 nA to ±500 mA in 9 decades
Potential accuracy	< 0.1 % FSR (Full Scale Range)
Potential resolution	0.003 %
Current accuracy	< 0.1 % FSR
Current resolution	0.003 % FSR (Best: 150 fA)
Input impedance	10 GΩ (//20 pF)
Potential bandwidth	1 MHz
Computer interface	USB 2.0
Software	OrigaMaster

Optional items

OGFEIS – Impedance module
10 µHz to 5 MHz

OrigaMµ – Low Current Probe
±1 pA to ±10 nA

OrigaTrod Kit – RDE
100 to 10,000 rpm

Battery Holder
Coin Cell

Battery Holder
Swagelok

OrigaMaster

Easy to use and licence free

or

with or without EIS

Thanks to the Power Supply

USB 2.0

Origa**Master**

Multi-Windowing
Changing scales in real time
Overlaying without limit

✓ **Windows Interface**

✓ **Easy graphic programming**

✓ **Up to 1,000,000 cycles**

✓ **Zooming in real time**

✓ **Export data to**
Excel, Open Office, Regressi …

Opening two Origa Master**
or more at the same time**
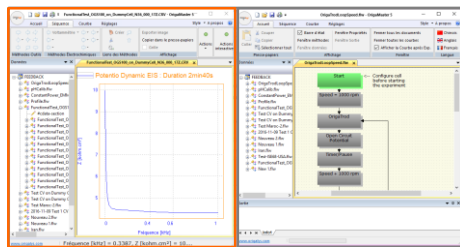
1st Origa**Master**   2nd Origa**Master**
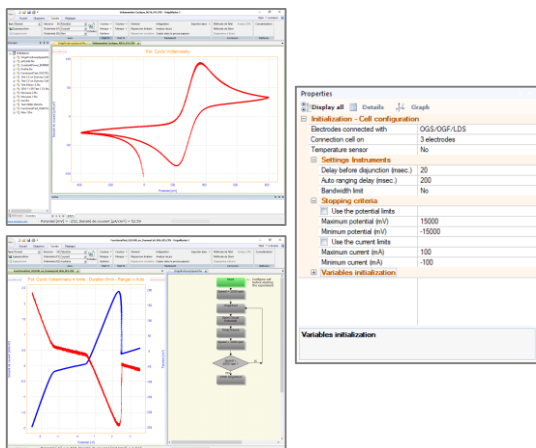
✓ **Expert mode**

✓ **No point or time limitation**

✓ **Safety criteria**

✓ **Customization**

✓ **Multi-languages:**
English, French and Chinese

OrigaMaster's Methods

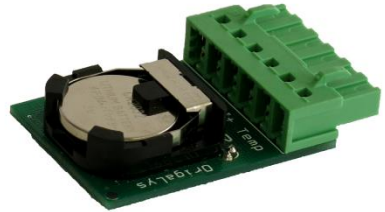|	OrigaFlex
VOLTAMMETRY	
Pot. Cyclic Voltammetry (CV)	✓
Pot. Advanced Cyclic Voltammetry	✓
Gal. Cyclic Voltammetry	✓
Pot. Linear Voltammetry	✓
Pot. CV 4 limits	✓
Pot. Interactive CV	✓
Staircase Voltammetry (SCV)	✓
CHRONO	
Open Circuit Potential (OCP)	✓
Chrono Amperometry (CA)	✓
Chrono Amperometry Expert	✓
Chrono Coulometry (CC)	✓
Chrono Potentiometry (CP)	✓
Chrono Potentiometry Expert	✓
Interactive Potentiometry	✓
Single Chrono Amperometry	✓
IMPEDANCE	
Pot. Dynamic EIS	✓
Pot. Fixed Frequency EIS (Capacitance)	✓
Gal. Dynamic EIS	✓
CORROSION	
Pitting corrosion	✓
General corrosion (Rp)	✓
Coupled corrosion (Evans)	✓
Polarization for corrosion (Tafel)	✓
Zero Resistance Ammeter (ZRA)	✗
PULSE	
Pot. Differential Pulse (DPV)	✓
Gal. Recurrent Differential Pulse	✓
Pot. SW Voltammetry (SWV)	✓
Potentiometric Stripping Analysis (PSA)	✗
BATTERIES and SUPER CAPACITORS	
Single Charge or DisCharge	✓
Gal. Charge and DisCharge Cycle	✓
Expert Charge and DisCharge Cycle	✓
PITT	✓
GITT	✓
Constant Power	✓
Profile Generator	✓
Internal Resistance	✓
pH AND mV MEASUREMENT	
pH fixed Calibration	✗
pH auto Calibration	✗
pH measurement	✗
mV measurement	✗

Battery Holders

CR2032 Coin Cell

Swagelok Holder:

✓ Exchangeable
✓ Banana connectors: ø2mm

To be used with OrigaFlex

Dimensions:

✓ Length: 8 cm
✓ Width: 4.2 cm
✓ Height: 6.5 cm
✓ Height with the Swagelok: 11.4 cm

Main Specifications:

✓ Empty weight: 44.51 g
✓ Full weight: 200 g
✓ Operating temperature :
        -30°C à 80°C
✓ Receptacle

Fitting the following batteries:

✓ Coin Cells
✓ Flat Cells
✓ Cylindrical Cells

To be used with **OrigaFlex**

Main Specifications for the batteries:

✓ Thickness: 3.2 mm maximum
✓ Diameter: 20 mm maximum

Main Specifications:

✓ Temperature sensor
✓ Operating temperature:
        -30°C to 80°C
✓ Receptacle

Other Battery Cell Holders:
On demand

Detailed specifications

	OrigaFlex		
	OGF500	**OGF01A**	**OGF05A**
Potentiostat	yes		
Galvanostat	yes		
Maximum current	±500 mA	±1 A	±5 A
Compliance voltage	±20 V		
Max applied potential	±15 V		
Voltage range	±15 V		
Potential accuracy	< 0.1% FSR (full scale range)		
Potential resolution	0.003 %		
Maximum scan rate	200 V/s		
Current ranges	9 (14 with low current option)	9 (13 with low current option)	6 (11 with low current option)
with standard board	±5 nA to ±500 mA	±10 nA to ±1 A	±50 µA to ±5 A
with low current option	1 pA to 10 nA		
Current accuracy	< 0.1% FSR		
Current resolution	0.003 % FSR (Best: 150 fA)	0.003 % FSR (Best: 300 fA)	0.003 % FSR (Best: 1,5 nA)
Input impedance	10 GΩ (//20 pF)		
Interfaces	Ethernet, USB 2.0		
Acquisition time	≥100 µs		
IR Compensation	Yes, manual and automatic Static		
Electrode connections	2, 3, 4		
A/D converter	16 bits		
EIS Capability	10 µHz to 5 MHz		
Analog I/O	Yes, 1		
Floating option	No versatile connection		
Filters	1 µs to 1 s, analog		
Dimensions (DxWxH)	300 x 85 x 450 mm		300 x 120 x 450 mm
Power requirements	88-264 Vac, 47-63 Hz, 30 VA	88-264 Vac, 47-63 Hz, 40 VA	115/230 Vac, 47-63 Hz, 150 VA
Weight	4.55 kg	4.55 kg	8 kg
PC Software	OrigaMaster (by USB 2.0) and OrigaViewer (by Ethernet)		
Cable length	On demand		
Temperature control	-10°C to 105°C (14°F to 221°F)		

Subject to change without notice

BATTERIES

www.origalys.com

CORROSION

www.origalys.com

FABRIQUÉ EN FRANCE

MADE IN FRANCE

SENSORS

Pot. impulsion différentielle

Potential (mV)

www.origalys.com

RESEARCH

chemical pharmaceutical biochemistry
health lab analysis experiment research
solution bottle dna
expertise chemist investment discovering industry
class tube focus
technology science evidence equipment
information hospital Chemistry diagram
microbiology medicine chart
scientific report pharmacy data formula clinical test
medical education laboratory biotechnology plan fluid
flask liquid analyzing biology glass
goal sample

www.origalys.com

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