PACK OGFOIA

Potentiostat - Galvanostat ±10 nA to ±1 A / ±15 V / ±20 V

OGFOI

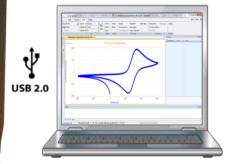
OrigoFlex

OGFPWR POWER SUPPLY



OGF01A
POTENTIOSTAT
GALVANOSTAT

OrigaMaster



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





nduded in the Pack

All in one concept and Ready to use

Power Supply - OGFPWR



It supplies current to one Potentiostat OGF01A

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

Potentiostat & Galvanostat - OGF01A and its cords



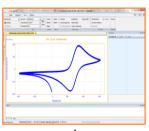




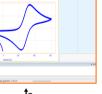


The pack includes cords to connect 2, 3 or 4 Electrodes OrigaLys customizes the cords for you, please ask us!

PC Software - OrigaMaster 5



USB 2.0



Methods included: Chrono: Pot. and Gal. CV, Staircase, CA, CC, CP

2. User friendly 3. Windows Interface

Pulse: DPV, SWV, GPV

Batteries: Charge/Discharge, Constant Power, Profile Generator, Internal Resistance, PITT, GITT

Corrosion: Pitting, Rp, Evans, Tafel

1. Graphic programming concept

Extra Methods if connected to the OGFEIS:

EIS: Gal. and Pot. Dynamic, Mott-Schottky

OGFOIR



The OGF01A combines compactness, performance and accurate price. It is a 1A 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	±1 A	
Current ranges	±10 nA to ±1 A 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: 300 fA)	
Input impedance	10 GΩ (//20 pF)	
Potential bandwidth	1 MHz	
Computer interface	USB 2.0	
Software	OrigaMaster	

Optional items



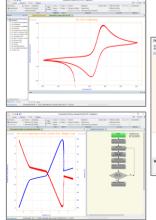
OrigaMarter

Easy to use and licence free



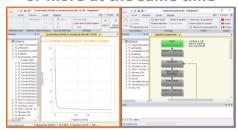
Multi-Windowing
Changing scales in real time
Overlaying without limit

- √ Windows Interface
- ✓ Easy graphic programming
 - √ Up to 1,000,000 cycles
 - ✓ Zooming in real time
- ✓ Export data to Excel, Open Office, Regressi ...





Opening two OrigaMaster or more at the same time



1st OrigaMaster

2nd OrigaMaster

- √ Expert mode
- ✓ No point or time limitation
 - ✓ Safety criteria
 - ✓ Customization
- ✓ Multi-languages: English, French and Chinese

OrigaMarter's Methods

	OrigaFlex		
VOLTA	MMETRY		
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	· ·		
	DANCE		
Pot. Dynamic EIS	✓		
Pot. Fixed Frequency EIS (Capacitance)	√		
Gal. Dynamic EIS	✓		
CORR	ROSION		
Pitting corrosion	✓		
General corrosion (Rp)	✓		
Coupled corrosion (Evans)	✓		
Polarization for corrosion (Tafel)	✓		
Zero Resistance Ammeter (ZRA)	×		
PL	JLSE		
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	×		

Origaline

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

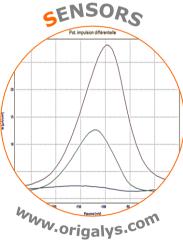
Detailed specifications

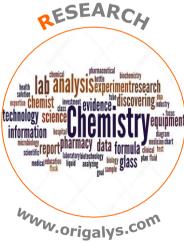
	Origa flex		
	OGF500	OGF01A	OGF05A
Potentiostat	yes		
Galvanostat	yes		
Maximum current	±500 mA	±1 A	±5 A
Compliance voltage	±20 V		
Max applied potential	±15 V		
Voltage range	±15 V		
Potential accuracy	< 0.1% FSR (full scale range)		
Potential resolution	0.003 %		
Maximum scan rate	200 V/s		
Current 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 15-10-2018

Country Representative

OrigaLys ElectroChem SAS

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

2 +33 (0)9 54 17 56 03 **3** +33 (0)9 59 17 56 03

contact@origalys.com