PACK OGFO5A

Potentiostat – Galvanostat $\pm 50 \mu A$ to $\pm 5 A / \pm 15 V / \pm 20 V$

OGFO5F

Origofle

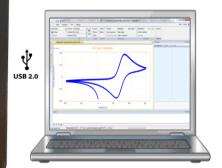
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OGFPWR POWER SUPPLY



OGF05A
POTENTIOSTAT
GALVANOSTAT

OrigaMaster



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





Included in the Pack

All in one concept and Ready to use

1 Power Supply - OGFPWR



It supplies current to one Potentiostat OGF05A

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 – OGF05A and its cords



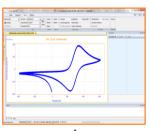






The pack includes cords to connect 2, 3 or 4 Electrodes OrigaLys customizes the cords for you, please ask us!

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

OGFO5A



The OGF05A combines compactness, performance and accurate price. It is a 5A 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	±5 A		
Current ranges	±50 μA to ±5 A in 6 decades		
Potential accuracy	< 0.1 % FSR (Full Scale Range)		
Potential resolution	0.003 %		
Current accuracy	< 0.1 % FSR		
Current resolution	0.003 % FSR (Best: 1,5 nA)		
Input impedance	1 TΩ (//20 pF)		
Potential bandwidth	100 KHz		
Computer interface	USB 2.0		
Software	OrigaMaster		

Optional items



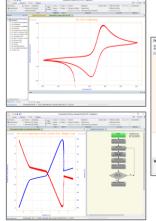
OrigaMarter

Easy to use and licence free



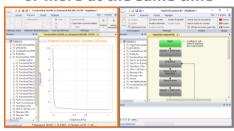
Multi-Windowing
Changing scales in real time
Overlaying without limit

- √ 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				
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	· ·				
	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	, ✓				
Zitterilar Resistance					
pH AND mV MEASUREMENT					
pH fixed Calibration	×				
pH auto Calibration	×				
pH measurement	×				
mV measurement	×				

Origaline

Battery Holders for OrigaFlex





Swagelok Holders
2 electrodes / 3 electrodes

Dimensions:

✓ Length: 80 mm✓ Width: 42 mm✓ Height: 65 mm

Main Specifications:

- ✓ Easily removable from the device
- ✓ Empty weight: 44,51 g ✓ Full weight: 200 a
- √ Banana connectors: ø2 mm
- ✓ Operating temperature: -30°C à 80°C



CR2032

Fitting the following batteries:

✓ Thickness: 3,2 mm maximum ✓ Diameter: 20 mm maximum

Main Specifications:

- $\checkmark\,$ Easily removable from the device
- ✓ Length: 80 mm ✓ Width: 32 mm
- ✓ Temperature sensor
- ✓ Operating temperature:
 - -30°C to 80°C











Other Battery Cell Holders: On demand

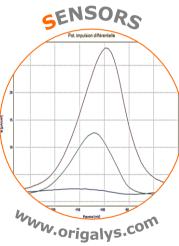
Detailed specifications

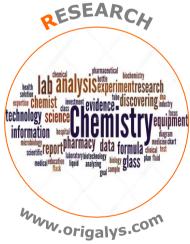
	Origa Flex					
	OGF500	OGF01A	OGF05A	OGF10A		
Potentiostat	yes					
Galvanostat	yes					
Maximum current	±500 mA	±1 A	±5 A	±10 A		
Compliance voltage	±20 V					
Max applied potential	±15 V					
Voltage range	±15 V					
Potential accuracy	< 0.1% FSR (full scale range)					
Potential resolution	0.003 %					
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)	6 (11 with low current option)		
with standard board	±5 nA to ±500 mA	±10 nA to ±1 A	±50 μA to ±5 A	±100 μA to ±10 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)	0.003 % FSR (Best: 3 nA)		
Input impedance		1 ΤΩ (//	[/] 20 pF)			
Interfaces	Ethernet, USB 2.0					
Acquisition time		<u>≥</u> 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	300 x 170 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	115/230 Vac, 47-63 Hz, 150 VA		
Weight	4.55 kg	4.55 kg	8 kg	16 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)					











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