OrigaFlex range





Potentiostat - Galvanostat - EIS ±5 nA to ±500 mA /±15 V /±20V 10µHz to 5MHz

MORE THAN 75 YEARS OF EXPERIENCE IN ELECTROCHEMISTRY

OGF[†]500EIS

OrigaFlex range



HOW IT WORKS

To supply the system, there are two possibilities, depending on your needs...

DRIVE UNIT - MULTI-CHANNEL CONFIGURATION

Power supply / Control of channels / Built-in dummy cell

OGFDRV



Example:



OGF⁺500 + OGF⁺01A + OrigaMux + 3 x OGF⁺05A

OGF DRY



Communication

TTL

RS232





Control of external instruments:

- Rotating electrode (RDE)
- Magnetic agitator
- Thermostat bath
- Solar simulator
- Climate chamber
- Etc.

POWER SUPPLY - FOR SINGLE-CHANNEL



OGFPWR

- Power supply
- · For only one channel





One channel 500 mA

= Pack OGF500

Check out our difference OGF packs:



OGF^{*}500EIS

OrigaFlex range





POTENTIOSTAT GALVANOSTAT IMPEDANCE T°C PROBE BATTERY HOLDER

±500 mA / ±20 V

Potential ranges: $\pm 3 V / \pm 6 V / \pm 15 V$

ZRA method

TTL Communication

Integrated EIS: 5 MHz - 10 µHz

OrigaMaster 5

Licence free software EASY TO USE

- Simultaneous measurements on different channels can be synchronized.
- Built-in EIS: 10 uHz-5 MHz
- Can be addressed directly to a PC, via USB and so controlled by OrigaMaster.
- See the Status or the free potential on the bottom screen
- Up to 10 Channels OGF500 with 1 Drive Unit & Dummy Cell





OrigaFlex range



OPTIONAL ITEMS

OrigaTrod Kit: Rotating Disk Electrode (RDE) and

its speed controller (OrigaBox).

OrigaMµ: Low current probe, up to 1 pA.

OrigaDiff: 2nd voltage measurement.

OrigaMix: Magnetic stirrer and its speed controller

(OrigaBox).

OrigaLine: Static electrode, glass electrodes, tips,

sample holder, electrochemical cell, etc.

Battery Cell Holder









MAIN TECHNICAL SPECIFICATIONS				
Electrode connections	2, 3 & 4	Potential resolution	0.003%	
Max applied potential	±15 V	Current resolution	0.003 % FSR (Best: 150 fA	
Compliance voltage	±20 V	Input impedance	1 TΩ (//20 pF)	
Maximum current	±500 mA	Potential bandwidth	100 KHz	
EIS frequency	10 μHz to 5 MHz	Computer interface	USB 2.0	
Current ranges	±5 nA to ±500 mA in 9 decades	Software	OrigaMaster	
Potential ranges	±3 V, ±6V and ±15V	Current accuracy	< 0.1 % FSR	
Potential accuracy	< 0.1 % FSR (Full Scale Range)			

OGF[†]**500EIS**

OrigaFlex range



Interactive methods

OrigaMarter

	VOLTAMMETRY	
Pot. Cyclic Voltammetry (CV)	yes	
Pot. Advanced Cyclic Voltammetry	yes	
Gal. Cyclic Voltammetry	yes	
Pot. Linear Voltammetry	yes	
Pot. CV 4 limits	yes	
Stripping Voltammetry	yes	
Staircase Voltammetry (SCV)	yes	
Stairedse voltamment y (Sev)	CHRONO	
Open Circuit Potential (OCP)	yes	
Chrono Amperometry (CA)	yes	
Chrono Amperometry Expert	yes	
Chrono Coulometry (CC)		
	yes	
Chrono Potentiometry (CP)	yes	
Chrono Potentiometry Expert	yes	
Single Chrono Amperometry	yes	
	IMPEDANCE	
Pot. Dynamic EIS & Gal. Dynamic EIS	yes	
Pot. Fixed Frequency EIS (Capacitance)	yes	
Pot. Fixed Frequency EIS vs Time (HFR)	yes	
Gal. Fixed Frequency EIS vs Time (HFR)	yes	
	CORROSION	
Pitting corrosion	yes	
General corrosion (Rp)	yes	
Coupled corrosion (Evans)	yes	
Polarization for corrosion (Tafel)	yes	
Harmonic Distorsion Analysis (HDA)	yes	
Zero Resistance Ammeter (ZRA)	oui (only with OGF ⁺ & OGF ⁺ EIS)	
	PULSE	
Pot. Differential Pulse (DPV)	yes	
Gal. Recurrent Differential Pulse	yes	
Pot. SW Voltammetry (SWV)	yes	
Potentiometric Stripping Analysis (PSA)	yes	
	BATTERIES, SUPER CAPACITORS and PHOTOVOLTAIQUE	
Single Charge or DisCharge	yes	
Gal. Charge and DisCharge Cycle	yes	
Expert Charge and DisCharge Cycle	yes	
PITT & GITT	yes	
Constant Power	yes	
Constant Resistor	yes	
Profile Generator	yes	
Internal Resistance	yes	
I/V Characterization	yes	

OGF*500FIS

OrigaFlex range



BATTERY HOLDERS FOR ORIGAFLEX

Holders / Swagelok (2 electrodes - 3 electrodes)







- Suitable for potentiostats from the OrigaFlex range
- Easily removable
- Empty weight: 44.51 g
- Weight with battery: 200 g
- · Banana connector: ø2 mm
- Operating temperature: -30°C to 80°C





For more information on our supports and Swagelok, we invite you to consult our accessories catalog.



Coin cell battery holder - AA / AAA - super capacitor

















Specifications - coin battery holder :

- Suitable for potentiostats from the OrigaFlex range
- Easily removable
- · Length: 80mm
- · Width: 32mm
- Temperature probe
- Operating temperature: -30°C to 80°C

For more information on our battery supports, we invite you to contact us.



OrigaFlex range





OrigaDiff

ADDING A VOLTAGE MEASUREMENT
IN YOUR CELL





Adapted to the OrigaFlex

IDEAL SOLUTION FOR BATTERY FIELD

CONCEPT:

Add a high input impedance voltage measurement at any point in your cell.

Connectors: BNC

Max voltage: ±20V

• Real-time monitoring

Available in OM5 & OV2

· Compatible with:

OrigaFlex range OGS100 & OGS200





Read the application note: AP-B07 on origalys.com



WHY DID YOU CHOOSE ORIGALYS?

"The potentiostat is very intuitive and allows complex experimental protocols to be carried out"

The advantage of the OrigaFlex is its easy handling, particularly with the fact that it can carry out multi-channel tests while being independent of each other. In the event of PC micro-cuts, the channels continue to run by themselves and when the software restarts, the data is not lost. The potentiostat is very intuitive and allows complex experimental protocols to be performed using the most common electrochemical methods.

We carried out different tests with 3 electrodes and this device allowed us to clearly see the behavior of each electrode.

There is also a very important feature which is its robustness because we have had the OrigaFlex for almost two years. Although the device works 24 hours a day, 7 days a week, we have not encountered any problems so far.



University Ibn Tofail - Kenitra, Morocco



CINETICS AND TEACHING

« A good choice of quality and versatility versus price »

I chose OrigaLys because its OrigaFlex system allows a unique freedom and thus arm instruments according to my need. For example, separate modules and teach in the first semester; then combine them into a single instrument and conduct research in the second semester. I haven't seen that in other instruments I have in my lab. I think I've made a good choice of quality and versatility versus price.





Pontificia Universidad Católica de Chile, Chile

OrigaFlex range



A QUESTION? CONTACT US!

OUR FRANCE NETWORK





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