OrigaFlex range





Potentiostat - Galvanostat - EIS ±50 μA to ±5 A /±15 V /±20V 10μHz to 5MHz

MORE THAN 75 YEARS OF EXPERIENCE IN ELECTROCHEMISTRY

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+DRV



Communication

TTL RS232

ON OFF

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:



OrigaFlex range





POTENTIOSTAT GALVANOSTAT IMPEDANCE T°C PROBE BATTERY HOLDER

±5 A / ±20 V

Potential ranges: ± 3 V / ± 6 V / ± 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 4 Channels OGF05A 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	91 μV on ±3 V	
Max applied potential	±15 V	Current resolution	0.003 % FSR (Best: 1.5 nA	
Compliance voltage	±20 V	Input impedance	1 TΩ (//20 pF)	
Maximum current	±5 A	Potential bandwidth	1 MHz	
EIS frequency	10 μHz to 5 MHz	Computer interface	USB 2.0	
Current ranges	±50 μA to ±5 A in 6 decades	Software	OrigaMaster	
Potential ranges	±3 V, ±6V and ±15V	Current accuracy	< 0.1 % FSR	
Potential accuracy	< 0.1 % FSR (Full Scale Range)			

OrigaFlex range



Interactive methods

OrigaMaster

	VOLTAMMETRY	
Pot. Cyclic Voltammetry (CV)	yes	
Pot. Advanced Cyclic Voltammetry	yes	
Gal. Cyclic Voltammetry	yes	
Pot. Linear Voltammetry	yes	
Pot. CV 4 limits	yes Wes The second of the seco	
Stripping Voltammetry	yes	
Staircase Voltammetry (SCV)	yes	
	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)	
zero resistance Annieter (zita)	PULSE	
Pot. Differential Pulse (DPV)	yes	
Gal. Recurrent Differential Pulse	yes	
Pot. SW Voltammetry (SWV)	yes	
Potentiometric Stripping Analysis (PSA)		
ottonitometric stripping Analysis (FSA)	yes BATTERIES, SUPER CAPACITORS and PHOTOVOLTAIQUE	
Single Charge or DisCharge	yes	
Gal. Charge and DisCharge Cycle	yes	
Expert Charge and DisCharge Cycle		
PITT & GITT	yes	
Constant Power	yes	
	yes	
Constant Resistor	yes	
Profile Generator Internal Resistance	yes	
Internal Resistance	yes	

OrigaFlex range



BATTERY HOLDERS FOR ORIGAFLEX

Holders / Swagelok (2 electrodes - 3 electrodes)





Specifications:

- 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.



OGF*05AFIS

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



DEVELOPMENT OF NEW ELECTROCALYSTS

"We strongly recommend this system for the electrochemical measurement"

OrigaFlex (OGF05A) is an excellent option to perform electrocatalytic measurements related to water electrolysis. The system is very easy to use, and the software offers multiple and interesting options. On the other hand, the technical support of ORIGALYS© is always accessible and effective. We strongly recommend this system for the electrochemical measurements dealing with water electrolysis.





Institute of Electrochemistry, University of Alicante, Spain



ELECTROSYNTHESIS OF POLYMER FILMS

« The simplicity and the richness of its features helped us to take matters into our own hands very quickly »

Our OrigaFlex potentiostat with two channels, the OGF500 and OGF05A, allowed us to perform various and very precise electrochemical measurements. Thanks to this system, we have been able to develop our research axis dedicated to the electrosynthesis of conductive polymer films on different substrates and their applications in the fields of fuel cells, corrosion protection, electrochemical sensors, metallization of plastic parts, etc. The simplicity of the software and the richness of its features helped us to take matters into our own hands very quickly and carry out our experiments in very good conditions. We really liked the OrigaFlex potentiostat which is a very good solution to handle different electrochemical studies. In the future, we plan to supplement our OrigaFlex system with OGF01A and OGF10A.





University Ibn Zohr, Faculty of sciences, Agadir, Morocco

OGF OSAEIS

OrigaFlex range



A QUESTION? CONTACT US!

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