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Potentiostat - Galvanostat - EIS ± 10 nA to ± 1 A $/\pm 15$ V $/\pm 20V$ 10μ Hz to 5MHz

MORE THAN 75 YEARS OF EXPERIENCE IN ELECTROCHEMISTRY

Origoly

HOW IT WORKS

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

OGFDRV – DRIVE UNIT - MULTI-CHANNEL CONFIGURATION



3 channels 05A (OGF⁺05A)

OGF⁺**DRV** – **DRIVE UNIT** - **CONFIGURATION MULTI-VOIES**



OGFPWR – POWER SUPPLY - FOR SINGLE-CHANNEL



- Power supply
- · For only one channel





Check out our difference OGF packs:



1





POTENTIOSTAT GALVANOSTAT IMPEDANCE T°C PROBE BATTERY HOLDER

±1 A / ±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 µHz-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 OGF01A with 1 Drive Unit & Dummy Cell







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: 300 fA
Compliance voltage	±20 V	Input impedance	1 TΩ (//20 pF)
Maximum current	±1 A	Potential bandwidth	1 MHz
EIS frequency	10 µHz to 5 MHz	Computer interface	USB 2.0
Current ranges	±10 nA to ±1 A in 9 decades	Software	OrigaMaster
Potential ranges	± 3 V, ± 6 V and ± 15 V	Current accuracy	< 0.1 % FSR
Potential accuracy	< 0.1 % FSR (Full Scale Range)		



OrigaMaster

	VOLTAMMETRY	
	VOLTAMMETRY	
Pot. Cyclic Voltammetry (CV)	yes	
Pot. Advanced Cyclic Voltammetry	yes	
Gal. Cyclic Voltammetry	yes	
Pot. Linear Voltammetry	yes and de	
Pot. CV 4 limits	yes and till	
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)	
	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 yes	
Profile Generator	yes	
Internal Resistance		
Internal Resistance	yes	

BATTERY SUPPORT FOR ORIGAFLEX

Swagelok support (2 electrodes - 3 electrodes)



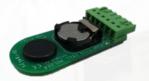
- Dimensions:
- Length: 8cm
- Width: 4.2cm
- Height: 6.5 cm

Specifications:

- Easily removable
- Empty weight: 44.51 g
- Weight with battery: 200 g
- Banana connector: ø2 mm
- Operating temperature: -30°C to 80°C

Button cell battery holder - AA / AAA - super capacitor

BUTTON BATTERY HOLDER



Suitable for batteries:

- Thickness: 3.2 mm maximum
- Diameter: 20 mm maximum

Specifications:

- Easily removable
- Length: 80mm
- Width: 32mm
- Temperature probe
- Operating temperature: -30°C to 80°C









Other Battery Support: Contact us



Consult our catalog of

electrodes and accessories:

Origalys





OrigaDiff

ADD A VOLTAGE MEASUREMENT TO YOUR CELL



Adapted to the OrigaFlex, thanks to its support

PERFECT SOLUTION FOR BATTERIES

CONCEPT:

High input impedance measurement at any location in your cell.

- Connectors: BNC
- Max voltage: ±20V
- Real-time control
- Available on OM5 & OV2

• Compatible with : OrigaFlex range OGS100 & OGS200





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



ELECTROCATALYSIS AND BATTERY RESEARCH

"The Origaflex offers great value for a flexible system"

It performs flawless during standard measurements such as rotating-ring disk measurements of nanoparticles or charge discharge curves of battery materials. We have used it, e.g., in our recent publication-in-ChemSusChem.

The system is simple and easy to use. Most importantly, my students like to work with the potentiostat as well as with the software OrigaMaster and OrigaViewer. The software is very intuitive and allows drawing complex experimental protocols using the most common electrochemical methods.

The graphical representation of the experimental protocol makes it also easy to document the performed experiment. Overall, the OrigaFlex system offers great value for a flexible and accessible potentiostat system at a low price.

PCING



Georg-August-Universität Göttingen IMP Institut für Materialphysik



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



A QUESTION ? CONTACT US!

OUR FRANCE NETWORK





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AR01260 - 09/01/2024

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