OGF+10AEIS

OrigaFlex range

Potentiostat - Galvanostat - EIS

±100 µA to ±10 A /±15 V /±20V 10µHz to 5MHz

MORE THAN 75 YEARS OF EXPERIENCE IN ELECTROCHEMISTRY

OGF+10AEIS
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

OGF+DRV

Communication

TTL | RS232

Example :

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

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

USB

One channel 500 mA
=
Pack OGF500

Check out our difference OGF packs:

OGF+10AEIS
OrigaFlex range

POTENTIOSTAT GALVANOSTAT
IMPEDANCE T°C PROBE
BATTERY HOLDER

±10 A / ±20 V

Potential ranges: ± 3 V / ± 6 V / ± 15 V

ZRA method

TTL Communication

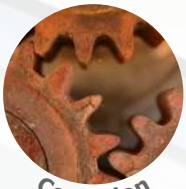
Integrated EIS:
5 MHz - 10 µHz

OrigaMaster 5

Licence free software
EASY TO USE

- Simultaneous measurements on different channels can be synchronized.
- Built-in EIS: 10 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 OGF10A with 1 Drive Unit & Dummy Cell

Batteries



Corrosion

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: 3 nA
Compliance voltage	±20 V	**Input impedance**	1 TΩ (//20 pF)
Maximum current	±10 A	**Potential bandwidth**	100 KHz
EIS frequency	10 µHz to 5 MHz	**Computer interface**	USB 2.0
Current ranges	±100 µA to ±10 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)		

OGF+01AEIS
OrigaFlex range

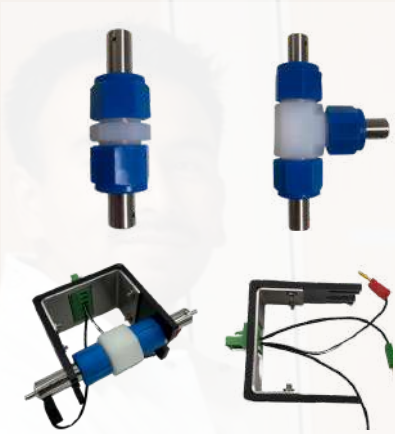
Interactive methods

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
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
Profile Generator	yes
Internal Resistance	yes
I/V Characterization	yes

BATTERY HOLDERS FOR ORIGAFLEX

Holders / Swagelok (2 electrodes - 3 electrodes)

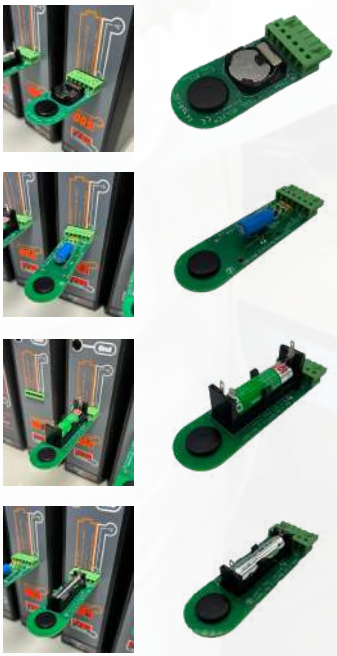


Specifications:

- 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+10AEIS
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

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.

GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

Georg-August-Universität Göttingen IMP Institut für Materialphysik

FUEL CELL, ELECTROLYZER & CATALYST

« The OrigaLys machine has been a great success in achieving our goals and produced good results. »

We have been using the Origalys model OGF**10A+EIS** used for general electrochemistry, Fuel cell, Electrolyzer and Catalyst research activity. We are very pleased with the results. Our aim was to develop a catalyst for Green energy applications. The Origalys machine has been a great success in achieving our goals and produced good results. The unit is easy to operate, has an analysis tools and produces a report that is both comprehensive and easy to interpret.

JGI JAIN DEEMED-TO-BE UNIVERSITY

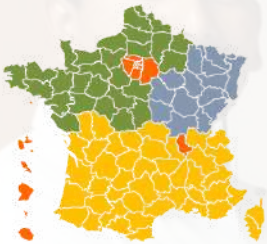
Jain University, Bengaluru, India

OGF + 10AEIS

OrigaFlex range

A QUESTION ? CONTACT US!

OUR FRANCE NETWORK



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