OGFOIA

Potentiostat – Galvanostat

±10 nA to ±1 A / ±15 V / ±20 V

OGFOIA
Potentiostat

OrigaFlex

Ref2
Wrk
Ref
Aux
°C
Gnd
°C

Channel

FrEE
Status

OrigaLys

**POTENTIOSTAT
GALVANOSTAT
T°C PROBE
BATTERY HOLDER**

OrigaMaster 5

USB 2.0
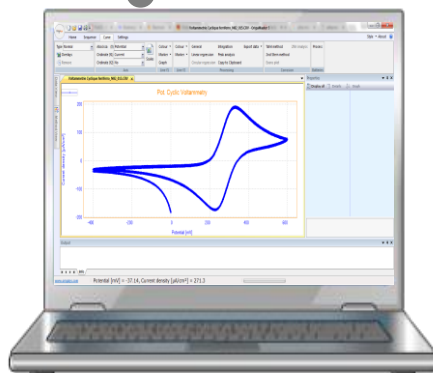
Licence free software

Windows XP, Vista, 7, 8 and 10.

EASY TO USE

Origalys Electrochem

GARANTIE INSTRUMENT
5 ANS YEARS AÑOS
INSTRUMENT WARRANTY

How it works

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

OGFDRV – DRIVE UNIT – MULTI-CHANNEL CONFIGURATION

✓ **Power supply**
✓ **Control of channels**
✓ **Built-in dummy cell**

ETHERNET

Use an "**OGFDRV - Drive Unit"**, from one channel and to extend it in the future.

For instance:

5 channels 500 mA (OGF500)
+
One EIS module

OGFPWR – POWER SUPPLY – FOR SINGLE-CHANNEL

✓ **Power supply**
✓ **For only one channel**
✓ **And one OGFEIS**

USB 2.0

or

Consult our different Pack OGF:

Pack OGF500

Pack OGF01A

Pack OGF05A

Pack OGF10A

For instance:

One channel 500 mA
+
One EIS module
or
One channel 500 mA
=
Pack OGF500

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OGF01A Potentiostat

The OGF01A combines compactness, performance and accurate price. It is a 1A potentiostat/galvanostat which can be complemented by one Impedance module OGFEIS.

His handle allows you to carry it easily and everywhere.

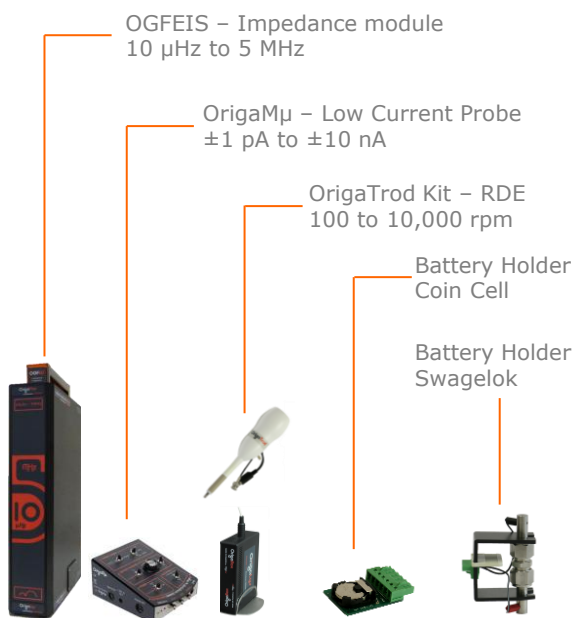Connected to a Drive Unit OGFDRV, it becomes a Multi-Channel system.

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	±1 A
Current ranges	±10 nA to ±1 A in 9 decades
Potential accuracy	< 0.1 % FSR (Full Scale Range)
Potential resolution	450 µV on ±15 V
Current accuracy	< 0.1 % FSR
Current resolution	0.003 % FSR (Best: 300 fA)
Input impedance	1 TΩ (//20 pF)
Potential bandwidth	1 MHz
Computer interface	USB 2.0
Software	OrigaMaster

Optional items

OGFEIS – Impedance module
10 µHz to 5 MHz

OrigaMµ – Low Current Probe
±1 pA to ±10 nA

OrigaTrod Kit – RDE
100 to 10,000 rpm

Battery Holder
Coin Cell

Battery Holder
Swagelok

Origa**Master**'s Methods

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	✓

IMPEDANCE (with the OGFEIS module)

Pot. Dynamic EIS	✓
Pot. Fixed Frequency EIS (Capacitance)	✓
Pot. Fixed Frequency EIS vs Time (HFR)	✓
Gal. Dynamic EIS	✓

CORROSION

Pitting corrosion	✓
General corrosion (Rp)	✓
Coupled corrosion (Evans)	✓
Polarization for corrosion (Tafel)	✓
Zero Resistance Ammeter (ZRA)	✗

PULSE

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	✓

Country Representative

OrigaLys ElectroChem SAS