

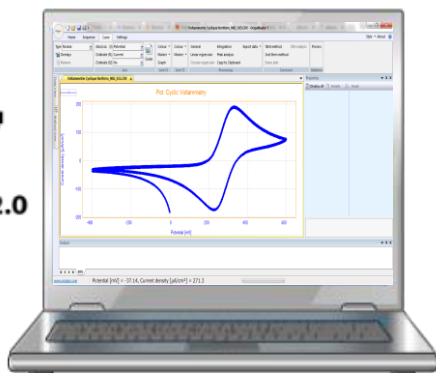
Potentiostat – Galvanostat

$\pm 100 \mu\text{A}$ to $\pm 10 \text{ A}$ / $\pm 15 \text{ V}$ / $\pm 20 \text{ V}$

POTENTIOSTAT
GALVANOSTAT
T°C PROBE
BATTERY HOLDER



OrigaMaster 5



Licence free software

Windows XP, Vista, 7, 8 and 10.

EASY TO USE

Electrochem
OrigaLys



How it works

Supplying the system...

Multi-Channel mode



Use the **Drive Unit**, if you need more than one Channel

Mono-channel mode

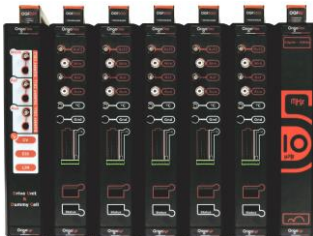
Use the **Power Supply**, if you need just one Channel to begin



Drive Unit & Dummy Cell

3 main functions:

1. It **supplies current to the channels**, as the sum of each amps channel connected to a Drive Unit shall not exceed **20A** or **10 Channels**.
2. It allows **connection to a computer via Ethernet**. Thus, the PC software included, called **OrigaViewer** (without charge or licence) can control every channel of the system. Individually, each channel can be controlled by the PC software **OrigaMaster** via USB.
3. Finally, thanks to its **dummy cell**, functional tests can be performed on cords and on the different Channels. Thus, it is ensured that each method will be perfectly performed.



For example:

Five 500 mA Channels
+
One EIS Channel



or



For example:

One 500 mA Channel + One 500 mA Channel
+ or
One EIS Channel



The OGF10A combines compactness, performance and accurate price. It is a 10 A 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.

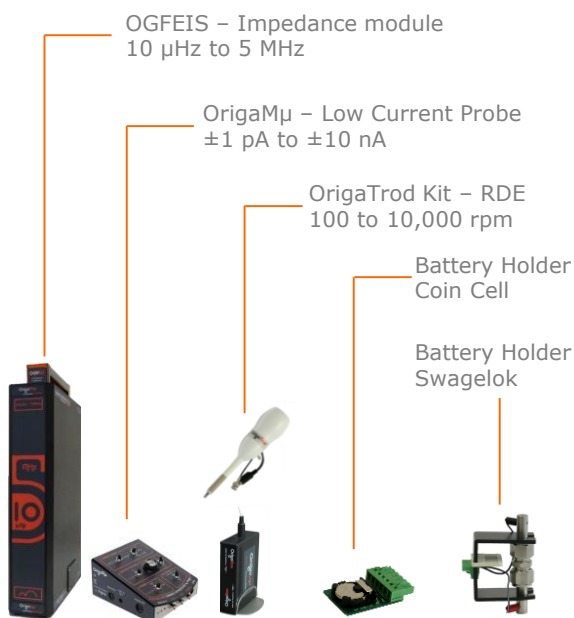
Built-in modularity:

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	±10 A
Current ranges	±100 µA to ±10 A in 6 decades
Potential accuracy	< 0.1 % FSR (Full Scale Range)
Potential resolution	0.003 %
Current accuracy	< 0.1 % FSR
Current resolution	0.003 % FSR (Best: 3 nA)
Input impedance	10 GΩ (//20 pF)
Potential bandwidth	100 KHz
Computer interface	USB 2.0
Software	OrigaMaster

Optional items



OrigaMaster's Methods

OrigaFlex – OGF05A

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

Pot. Dynamic EIS	✓
Pot. Fixed Frequency EIS (Capacitance)	✓
Gal. Dynamic EIS	✓

CORROSION

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

PULSE

Pot. Differential Pulse (DPV)	✓
Gal. Recurrent Differential Pulse	✓
Pot. SW Voltammetry (SWV)	✓
Potentiometric Stripping Analysis (PSA)	x

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	✓

Subject to change
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Country Representative

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