

TECHNICAL PRODUCT INFORMATION

Electrochemical instruments

- high - quality
- moderate prices
- excellent precision

Your contact:

Technical support, services, demo & rental equipment, price information & quotes, consulting:

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OGFO5A

Potentiostat – Galvanostat – Battery test system

$\pm 50 \mu\text{A}$ to $\pm 5 \text{ A}$ / $\pm 15 \text{ V}$ / $\pm 20 \text{ V}$

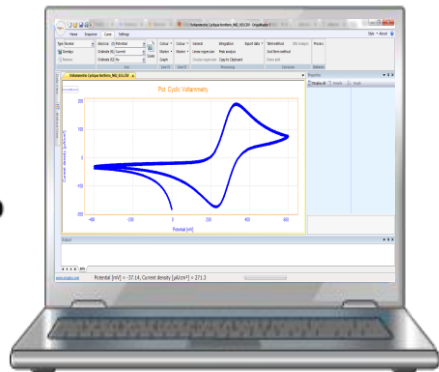


**POTENIOSTAT
GALVANOSTAT
T°C PROBE
BATTERY HOLDER**

OrigaMaster 5



USB 2.0



Licence free software

Windows XP, Vista, 7, 8 and 10.

EASY TO USE

OrigaLys

Electrochem



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



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



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



The OGF05A combines compactness, performance and accurate price. It is a 5 A potentiostat/galvanostat which can be complemented by one Impedance module OGFEIS.

Its handle allows you to carry it easily and everywhere.

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

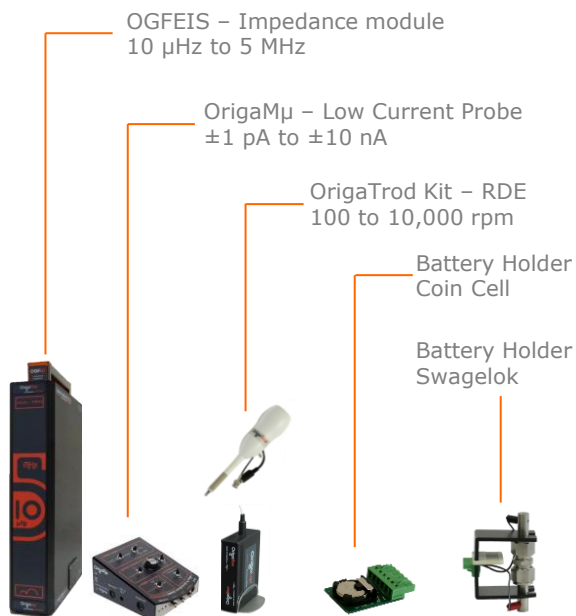
Built-in modularity:

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	±5 A
Current ranges	±50 μ A to ±5 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: 1,5 nA)
Input impedance	1 T Ω (//20 pF)
Potential bandwidth	100 KHz
Computer interface	USB 2.0
Software	OrigaMaster

Optional items



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)	*

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	✓

