

## TECHNICAL PRODUCT INFORMATION

### Electrochemical instruments

- high - quality
- moderate prices
- excellent precision

#### **Your contact:**

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

Tel.: +49(0)7032 / 895 93-2

Mail: [info@ektechnologies.de](mailto:info@ektechnologies.de)

Web: [www.ektechnologies.de](http://www.ektechnologies.de)

Shop: [www.lxinstruments.com/shop/elektrochemie/](http://www.lxinstruments.com/shop/elektrochemie/)

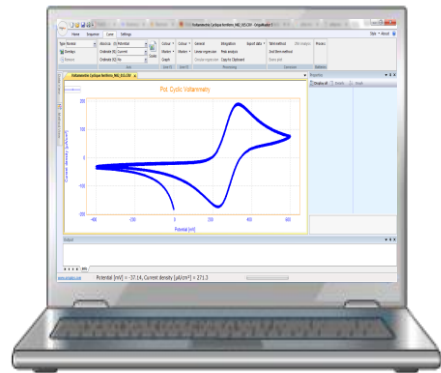
# OGF500

**Potentiostat – Galvanostat**  
**±5 nA to ±500 mA / ±15 V / ±20 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

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 OGF500 combines compactness, performance and accurate price. It is a 500 mA 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 OGFDRV, it becomes a Multi-Channel system.

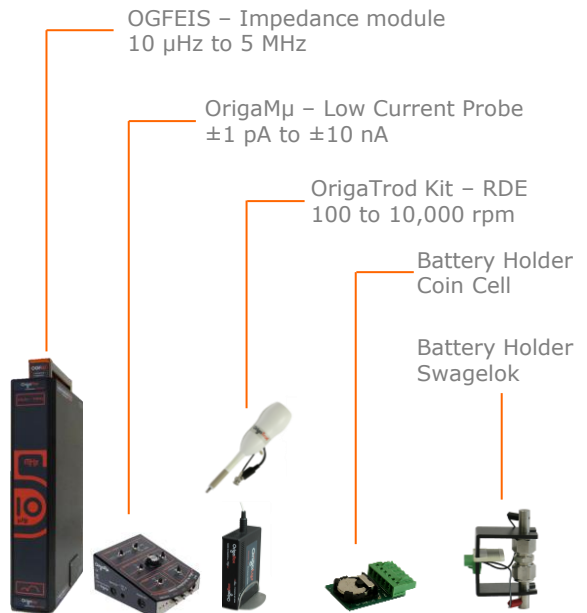
### Built-in modularity:

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	±500 mA
Current ranges	±5 nA to ±500 mA 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: 150 fA)
Input impedance	1 TΩ (//20 pF)
Potential bandwidth	1 MHz
Computer interface	USB 2.0
Software	OrigaMaster

### Optional items



# OrigaMaster's Methods

## VOLTAMMETRY

Pot. Cyclic Voltammetry (CV)	✓
Pot. Advanced Cyclic Voltammetry	✓
Gal. Cyclic Voltammetry	✓
Pot. Linear Voltammetry	✓
Pot. CV 4 limits	✓
Pot. Interactive CV	x
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	x
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)	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	✓

AR01259 – 22/09/2021

Country Representative

OrigaLys ElectroChem SAS

Les Verchères 2  
62A, avenue de l'Europe  
69140 RILLIEUX-la-PAPE  
FRANCE

☎ +33 (0)9 54 17 56 03

☎ +33 (0)9 59 17 56 03

[contact@origalys.com](mailto:contact@origalys.com)

