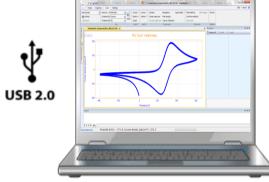
OGFO5A

Potentiostat – Galvanostat $\pm 50 \mu A$ to $\pm 5 A / \pm 15 V / \pm 20 V$



POTENTIOSTAT
GALVANOSTAT
T°C PROBE
BATTERY HOLDER

OrigaMarter 5



Licence free software
Windows XP, Vista, 7, 8 and 10.
EASY TO USE



How it works

Supplying the potentiostat...

Multi-Channel mode



Use the **Drive**Unit & **Dummy**Cell, if you
need more than
one Potentiostat

Single-Channel mode

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



Drive Unit & Dummy Cell

3 main functions:

- 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.
- It allows connection to a computer via Ethernet. Thus, the included PC software, called OrigaViewer (licence free) 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.

Power Supply - OGFPWR

2 main functions:

- 1. It supplies current to only one channel (500 mA, 1 A or 5 A).
- 2. It also supplies current to an EIS module.

It is **not connected to a PC**. The connection has to be made **from the Channel (via USB** from the rear panel). Here, the channel is controlled by **OrigaMaster**.

No Dummy Cell inside

Technical specifications:

Power: 100-240Vac - 50-60Hz - 1KVA Weight: 3.10 kg Dimensions (Length x Width x Height): 28.5 x 8.3 x 24.15 cm



For example:

Five 500 mA Channels + One EIS Channel

For example:

One 500 mA Channel One 500 mA Channel + Or One EIS Channel

OGFO5A



The OGF05A combines compactness, performance and accurate price. It is a 5 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	±5 A
Current ranges	±50 μA 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	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	✓
IMPE	DANCE
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	√ ·

Subject to change 15-10-2018

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