

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

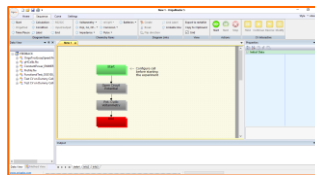
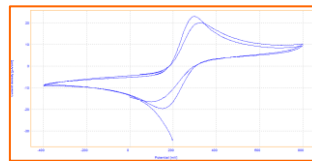
Mail: info@ektechnologies.de

Web: www.ektechnologies.de

Shop: www.lxinstruments.com/shop/elektrochemie/

OGS100

Potentiostat **G**alvanostat **I**mpedancemeter
±17.5 V **±1 nA** to **±100 mA** **USB**



Complete
Compact
Transportable

Included:
2 pH
measurements
inputs

Analog I/O : Ultra
Low Current and
Booster (I/V)

Rotating Electrode
Speed Controller

Delivered:
With PC software
OrigaMaster

Optional:
Magnetic Stirrer

Lighted and
Removable Cell

Beaker Holder
Height Adjustable

Research
Corrosion
Cells & **B**atteries
Coating / **P**lating
Ultra **L**ow **C**urrent
Nano **T**echnology
Sensors / **B**iology
Education

INPUTS / OUTPUTS

Front panel

POWER: 6-pin mini DIN, motor servo-controlling (rotating electrode stirrers...)

WORK: BNC, working electrode

REF: BNC, reference electrode

SENSE: (Ref2): BNC, 4-pole measurement cell or second reference electrode

AUX: BNC, auxiliary electrode

°C: RCA, temperature measurement

GND: banana \varnothing 4 mm protected ground, Faraday cage

E2/E2: pH measurement

Rear panel

Analog I/O: 8-pin DIN, for connection of Ultra Low Current Probe and Booster (current / voltage)

COM1: RS232C

COM2/3: RS232C, 2 serial ports (configurable as logical I/Os) for external devices control.

SPECIFICATIONS

General specifications

Auxiliary voltage: ± 17.5 V

Maximum current: ± 100 mA

Applied voltage: ± 5 V

Current measurement

9 ranges from 1 nA to 100 mA

Best resolution 30 fA

Auto ranging configurable

Acquisition speed: 1 Million samples / second

Scanning performances

Acquisition times ≥ 100 μ s

Ohmic drop compensation

"Feed-back" manual or automatic

Electrochemical impedance

(EIS)

10 μ Hz to 1 KHz

10 μ Hz to 5 MHz with OGF FRA Unit

20 frequencies / decade

Applied potential step resolution 200 μ V for 1 V

Power supply

90 to 264 Vac – 47 to 63 Hz – 30 VA

Or 24 V battery

Or 12 V battery using a converter



Dimensions

Width:

13.5 cm (folded up feet)

24.7 cm (unfolded feet)

Depth: 32.6 cm

Height: 41.8 cm

Weight: 5.5 kg

EC marking

Compliance with the following regulations:
EMC 2004/108/EC according to the standards N61326-1,
2011/65/EU – (RoHS 2)

Environmental conditions

Working temperature: 5 to 40°C

Relative humidity: 20 to 80 %

Accessories

OrigaLys ElectroChem is capable to provide a whole range of electrodes, corrosion cells and accessories: please consult us or visit our website.

OGS100 can be connected to:

OrigaM μ



1pA Range with
30aA resolution

OrigaBoost



From 20 V / 5 A
To 20 V / 20 A

OGFEIS



FRA Unit
Impedance
10 μ Hz – 5 MHz

OrigaLys ElectroChem

MORE INFO:
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