

OrigaStat e 100

knowledge in electrochemistry

The **OrigaLys team** originates from the depth of knowledge of electrochemistry in LYONS, and they have more than **20 years** experience in designing electrochemical systems. They aim to meet all possible requirements by offering high quality, good design, at a competitive price.

OrigaStat is an example of this knowledge, and offers a product with a potentiostat/galvanostat, an impedancemeter, a speed control unit for the **rotating electrode**, stirrer and measurement stand. Fitted with a temperature sensor and electrometer inputs, the OrigaStat offers the measurement of **pH**, ions and also **titration**. Finally, the logical inputs/outputs enable the system to control **many peripherals** such as furnaces, pumps, balances, reagent addition burettes, sample changers, and thermostated baths.

With its **USB** interface, the **OrigaMaster 5** PC software benefits from improved data-computing, and is compatible with Windows XP, Vista and 7. In addition to the usual methods it also **features graphic programming** of the sequences, the possibility of running **conditional loops**, cycles tests, and insertion of a mathematical equation, of starting a peripheral, and receiving **start/stop commands** from external units.

OrigaStat with its **logical inputs** combined with OrigaMaster 5 and its stop/start instructions, provides a **complete automation** system for electrochemical applications.

Applications

The **OrigaStat & OrigaMaster** system is ideal for application for surface treatment, studying corrosion, testing batteries and fuel cells and developing new materials.

Its **weak current range of 1 nA** (30 fA resolution) is well suited for investigation of materials such as insulators, dielectrics, ceramics, nano materials (nanotubes from carbon) and semiconductors.

OrigaStat is **compact** and **easily transportable** thanks to its handle and protective cover, it can thus be installed near the subject under study or the bath to be checked. With its 24 V battery power supply (12 V if using a converter), OrigaStat is the ideal tool to carry out field analyses.



Why choose OrigaStat ?

For the **performances** of its **OrigaMaster 5** software.

For its **user-friendliness** founded on :
- an efficient lighting with **powerful Leds** of its **measurement cell** allowing you to work under a fume cupboard or far from a source of light,
- a **silent functioning** due to a high quality of its components based on the 20 years experience of the designers,
- a **simplicity of use**: Easy to **carry**, and to **install** near a wall or of another equipment and convenient to put side by side in a cupboard thanks to its retractable feet.

For its **robustness** and its **reliability** founded on :
- electronics components and mechanics selected by **skilled professionals**,
- the selected materials, which combine **chemical resistance and mechanical properties**. The colour-impregnated materials used will remain as brand-new even after repeated cleanings.

Rotating Electrode

The **OrigaTrod** Rotating electrode is connected **directly to the OrigaStat** instrument (mini DIN 6 "Power" socket) and does not require the use of an external speed control unit.

This electrode results from the know-how of the **OrigaLys** team in electrochemical instrumentation. It adapts to a great majority of measurement cells fitted with **NS 14/23 ground joints**.

Able to function from **0 to 10000 tr/mn**, The OrigaTrod is driven by a motor fitted with ball bearings of a "**swiss made** ®" reference top quality.

The electrical signal is ensured thanks to graphite contact **doped with silver**.

Supplied with no tips in standard version, the OrigaTrod Rotating electrode is available with a wide range of OrigaLys active **tips** in various materials and diameters (**platinum, gold, glassy carbon** for the most common ones). It can also be equipped with M6 compatible tips.

