

OrigaTrode Kit

OrigaLine Range

electrochem
OrigaLys



**OrigaTrode - Rotating Disk Electrode (RDE)
& OrigaBox - Speed Controller
100 to 10,000 rpm**

MORE THAN 75 YEARS OF EXPERIENCE IN ELECTROCHEMISTRY

WHO ARE WE?

Specialist in electrochemical analysis and measurement devices

Designing, manufacturing & selling of analytical instruments in Electrochemistry

Potentiostats, Galvanostats, Impedance meters, pH-meters, Conductivity meters, Electrodes & accessories...



Customers all over the world



All our products are designed and manufactured in France



All our products are guaranteed for 5 years



31 distributors in 66 countries



90% of our partners are based in the Auvergne Rhône-Alpes region

MORE THAN 75 YEARS OF EXPERIENCE IN ELECTROCHEMISTRY...

1946

Tacussel



1988

Radiometer



2010

OrigaLys



2022

OrigaFactory



OUR PRIORITIES

CARING ABOUT PEOPLE

Participative management - Team-Building - Trust - Solidarity - Evolution



A close-knit & dynamic team

INNOVATE DIFFERENTLY & SUSTAINABLY

Initiative - Eco-conception - Repairability - Sustainability- - Performance



SHARE & TRANSMIT

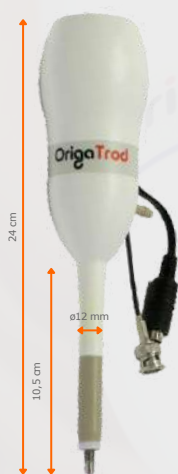
Experiences - Preserve our know-how - Transmit - Train



OrigaTrod

Two models available:

X130GL018C



X130GL018R



Same dimensions as Radiometer EDI101

- With an optical digital encoder, OrigaTrod guarantees a rotation speed accuracy of 0.35%.
- The electrical signal is ensured thanks to graphite contact doped with silver.
- A removable barbed fitting allows a neutral gas to flow through the electrode when it is used in a corrosive atmosphere.
- NS 14/23 ground joints (sleeve).

**Fully compatible with all Potentiostats
& with the tips from Radiometer**



OrigaBox

RDE Speed Controller

- It controls the RDE speed rotation
- USB or analog conisgn or RS232 control
- Can be used alone or connected to a potentiostat

By using a potentiostat from:

OrigaLys



1st solution MANUAL CONTROL

Thanks to the software from OrigaLys: OrigaBox Interface. Connected with USB.



2nd solution AUTOMATIC CONTROL

The speed rotation is controlled by OrigaMaster: the software which controlled the potentiostat.



Other brands

The speed rotation is controlled by the software which controlled the potentiostat.

An analog signal or RS232 is required from the potentiostat, consult us.

OrigaTrode Kit

OrigaLine Range

electro^ohythm
OrigaLys



OrigaTrode kit

**Rotating Disk
Electrode (RDE)**

**Radiometer's EDI101 and
CTV101 Legacy
(same designer)**

Fully compatible with tips from Radiometer

OrigaTrode

- **RDE**
- **100 to 10,000 rpm**
- **Accuracy: 0.35%**

OrigaBox

- **Speed Controller**
- **With PC software**
- **Resolution: 0.35%**

OPTION : OrigaSwitch – Remote control footswitch



Start & Stop the RDE with foot

Handle your experiment safety

For OrigaStat & OrigaBox

Perfect for glovebox

OrigaBox Interface

Speed Controller Software - Easy to use and licence free



Connected together with 6-pin DIN cable



How to use

- Windows interface
- Speed constant adjustable to control other kind of RDE
- Easy "Start and stop"
- Accurate speed thanks to an optical encoder

Setting the speed



Controlling one OrigaTrod or more on the same PC is possible



- 0.35% digital resolution
- With analog signal, the speed rotation is controlled by potentiostat from other brands



OrigaTrode Lt

An easy solution

Rotating Disk Electrode with a built-in Speed Controller

Suitable to any kind of other brands of potentiostats

Compatible with tips from Radiometer-Hach

From 100 to 5,000 rpm



Potentiometer

Monitoring manually the rotation speed of the OrigaTrode and directly on the device.

External Power Supply

The system needs to be directly supplied by a standard AC / DC switching adaptor 12 V output.



Sample Holders

Pellets from OrigaLys can be used with a sample holder, which can be adapted on the RDE (OrigaTrode). The material is PEEK (PolyEther Ether Ketone).

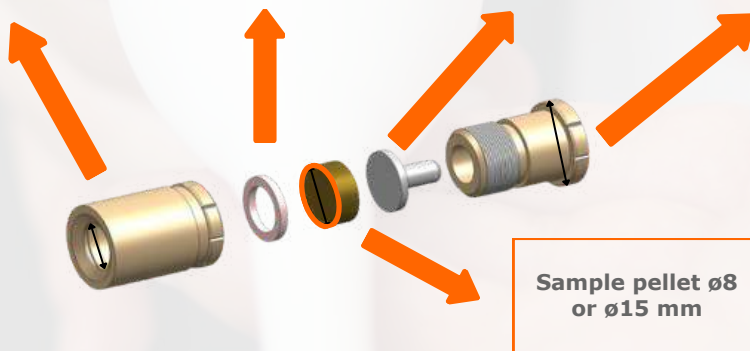
Product No.	Ø8 mm: E110GL001CIAL Ø15 mm: E110GL006CIAL
Temperature range	-10 to 105°C
Length	17 mm

Sample holder active area
Ø6 or Ø13 mm

O-ring in silicone
Ø6 or Ø13 mm

316L or titanium contact

Sample holder outer diameter
Ø11 or Ø19 mm



Sample pellet Ø8 or Ø15 mm

TO BE USED WITH RDE AND STATIC ELECTRODE



OrigaTrode
OrigaLys' RDE



EDI101
Radiometer's RDE



OrigaTrode Lt
RDE with potentiometer



StaTrode
Static Electrode

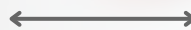
Pellets

To be inserted in the sample-holder, OrigaLys provides a whole range of sample pellets.

Thickness	BDD: 1 mm Other pellets: 3 mm
Diameter	8 or 15 mm

AVAILABLE PELLETS: Ø8 OR 15 MM

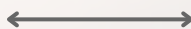
Materials	Diameter (mm)
A37	8
AISI430 Stainless	8 and 15
316L Stainless	8 and 15
Z30Cr13 Stainless	15
Aluminium	8
Silver	8
Glassy carbon	8 and 15
Copper	8 and 15
Boron Doped Diamond (BDD)	8 and 15
Iron	8
Graphite	8
Nickel	8 and 15
Gold	8
Platinum	8
Tungsten	8



15 mm

316 L Stainless steel

Ø15 mm



8 mm

DDB

Ø8 mm

Tips

Tips from OrigaLys can be used with our RDE (OrigaTrode) and with the Static Electrode (StaTrode) but also with most of other RDE on the market.

Length	20 mm
Outside diameter	11 mm
Material	PEEK (PTFE on demand)



For example:
Glassy Carbon
Ø3 mm

AVAILABLE TIPS: Ø1, 2, 3 OR 5 MM

Materials	Diameter (mm)	Materials	Diameter (mm)
316L Stainless	2 and 5	Nickel	2 and 5
70% Copper and 30% Nickel	5	Nickel, 99.99% purity	5
Silver	2 and 5	Peek	0
Carbon Steel XC38	5	Platinum	2 and 5
Copper	2 and 5	Platinum, 99.99% purity	5
Glassy Carbon	3 and 5	Tin	5
Gold	2 and 5	Titanium	2 and 5
Aluminium	3 and 5	Tungsten	1
Iron	5	Zinc	2 and 5

Contact us for more information regarding the following tips: Chrome (Cr), Iridium (Ir), Palladium (Pd), Rhodium (Rh), Cobalt (Co) or any other materials.

TO BE USED WITH RDE AND STATIC ELECTRODE



OrigaTrode
OrigaLys' RDE



EDI101
Radiometer's RDE



OrigaTrode Lt
RDE with potentiometer



StaTrode
Static Electrode

OrigaTrode Kit

A COMPLETE SOLUTION



RDE Stand

This stand is composed by:

- A standard stand:

With a robust base.

The height is easily adjustable.

- A glass cell

The volume can vary, on demand.

This cell can also be thermostated.

With its 5 holes, the cell can fit RDE, counter electrodes, working electrodes and reference electrodes.



100% compatible with Radiometer tips.

OrigaTrode Kit

When the OrigaTrode is used together with the OrigaBox, it is provided with a box. Thus, everything is safely transported.

The kit contains:

- OrigaTrode
- OrigaBox
- USB key, containing the software (PC Control Panel)
- User's manual
- The convenient cords
- The box

Tips, pellets and sample holders are not included.

The case has been designed to be able to transport them easily.

OrigaTrode Kit

OrigaLine Range



Access our application notes on www.origalys.com :



Join us on our YouTube channel!



OrigaWebinar



Also find us on LinkedIn!



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« I always liked the reliability of the engine, the simplicity of the design and above all the compatibility of the tips »

I chose the Originalys Origatrod because when I was an undergraduate I worked with the Old EDI 101 from Radiometer Analytical; and even my teacher told me that he had worked with the previous model, from the manufacturer the Tacussel. I always liked the reliability of the engine, the simplicity of the design and above all the compatibility of the tips.

When it came time to renew those very good old electrodes, my choice was Originalys. In addition, the fact that this manufacturer now had the sample holder tip for me to make my own pellets, opened up a world of possibilities in my analyses.



Universidad
de Concepción

Conception University - Chile

OrigaTrod Kit

OrigaLine Range



They trust us!



FRANCE  Fuel Sea Innovating electroanalysis



MOROCCO  



MARTINIQUE   Université de la Martinique



SPAIN   Universidad de La Laguna



PAKISTAN  



FRANCE  



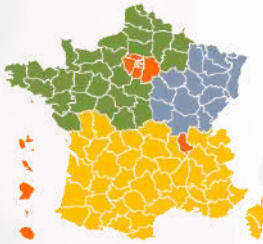
LUXEMBOURG  



DENMARK   AARHUS UNIVERSITY

A QUESTION ? CONTACT US!

OUR FRANCE NETWORK



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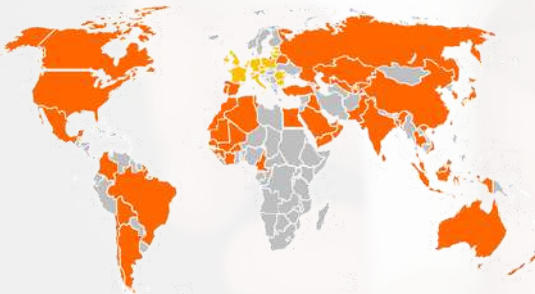


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