

# IviumRRDE

## Rotating Ring Disk Electrode System



The IviumRRDE is a robust rotator for electrochemical applications. It can be used with both disk and ring-disk tips of various materials. The rotation speed can be controlled with up/down buttons on the front panel of the control box, or from an external analog signal. The applied rotation speed is measured and controlled via a feedback loop; both the applied and measured rotation speeds are displayed on the front panel.

The electrical contacts to ring and disk are made with a dual brush system, to dual 4mm bananas for electrode connection. The additional brush contacts can be used for 4-point currentless measurements, eliminating effects from brush resistance (noise).

Although the combination with Ivium (bi-) potentiostats is recommended, the IviumRRDE can be used with any other suitable potentiostat.

## IviumRRDE System



### System performance

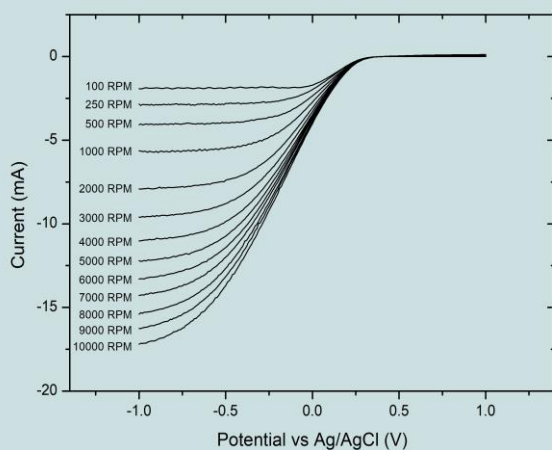
Rotation range	100 - 10,000 rpm
Applied resolution	10 rpm
Measured accuracy	0.02 rpm
Rotation stability	<1%
Analog control	1 rpm/mV, via BNC connector
Electrode contacts	4 x 4 mm banana sockets
Operating temperature	10 to 40 °C

### Content IviumRRDE kit

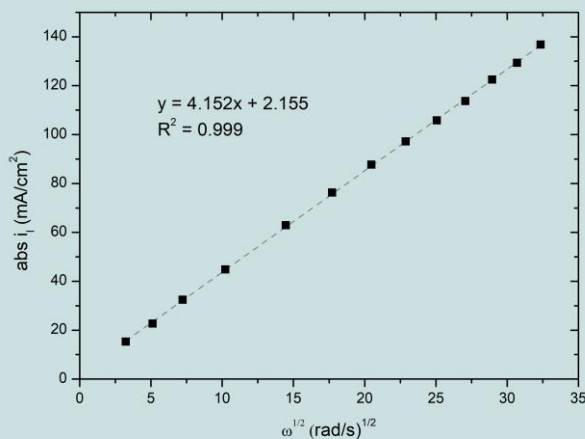
- Rotator with driveshaft and brush assembly (no tips included)
- Motor-controller unit
- Connection cable
- Power adaptor 100-240V
- Rotator fixing bar
- Set of spare brushes (4)

### Optional orders

- Tips RDE/RRDE of various materials and geometries
- Replacement driveshaft
- Replacement brush-set (4)



GC disk CVs at various rotation rates.



Levich graph of the limiting current.