

616

Rotating Electrode System

The Systems Approach to Rotating Electrodes

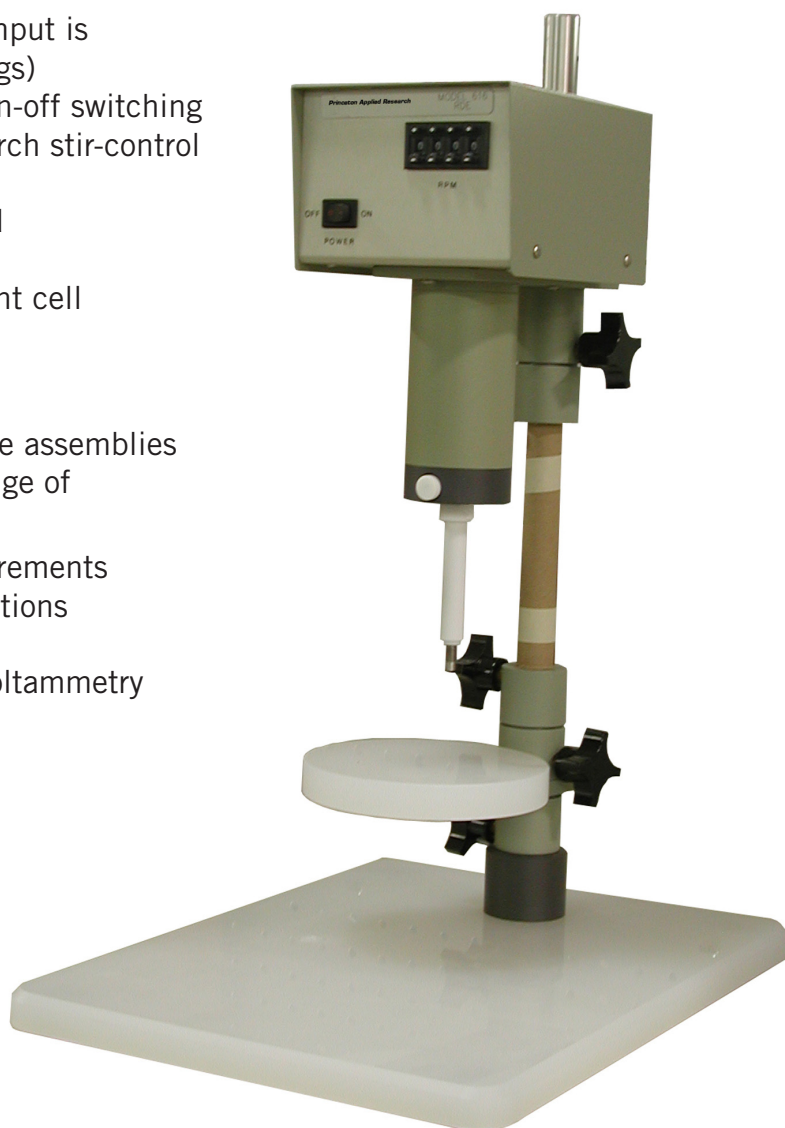
The Princeton Applied Research Model 616 Electrode Rotator is a high precision, low mass rotator that performs well with virtually any potentiostat. When connected to Princeton Applied Research electrochemical instrumentation, it uses control lines to give you remote start/stop and speed control. Using the convenient control panel and input jacks you can operate the model 616 easily for either manual or automated experiments.

Standard Features include:

- Front panel speed controls
- Remote analog speed control (input is summed with front panel settings)
- Front-panel and remote (TTL) on-off switching (using Princeton Applied Research stir-control signals)
- Remote analog output for speed verification
- Integral ring-stand for convenient cell mounting

For versatility, a variety of electrode assemblies are available to perform a wide range of experiments, including:

- High precision corrosion measurements
- Ultra-trace analytical determinations
- Automated Levich Plots
- Hydrodynamically-modulated voltammetry
- Cyclic stripping voltammetry



Accessories

Accessory Information

Because of its wide range of applications, the Model 616 is supplied without electrodes or accessories. Since these must be ordered separately, the ordering information is supplied below.

Quick Change Disk Electrodes

Disk electrodes 11.3 mm diameter, 1 cm² surface area. The material adjacent to the electrode surface is teflon. The electrode body is Kel-F 17mm O.D. shroud.

Model	Description
RDE0001	Disk Electrode Assembly (Includes 430 SS Disk)
RDE0002	Disk Installation Tool

Quick Change Cylinder Electrodes

Cylinder electrodes 12mm diameter, 12.4 mm height, 3 cm² surface area. The material adjacent to the electrode surface is Teflon. The electrode body is Kel-F 12 mm O.D. shroud.

Model	Description
RDE0011	Cylinder Electrode Assembly (Includes 430 SS Cylinder)

Permanent Disk Electrodes

Disk electrode 5 mm diameter permanently sealed in Teflon, 12 mm outside diameter shroud.

Model	Description
RDE0004	Platinum Electrode
RDE0005	Gold Electrode
RDE0008	Glassy Carbon Electrode

Cell Top

Model	Description
RDE0018	Analytical Cell Kit

Polishing Kit

Model	Description
K0015	For polishing electrodes

Specifications

Power	115 V ac or 230 V ac, 50/60 Hz, factory connected
Weight	14 lbs
Operating Temperature	10 to 40°C
Control Unit Dimensions	11 3/8" W x 10 1/8" D x 5 3/4" H
Base Dimensions	11" W x 15" D x 5 3/4" H
Motor	Permanent magnet dc, ironless rotor
Motor Power Supply	+24 V dc Nominal
Speed Control	Closed loop servo-system. Temperature compensated tach generator mounted on motorshaft, providing rotational speed information
Speed Range	100 RPM to 8,000 RPM
Precision	Better than ±1%
Accuracy	Better than ±3%
Controls	On/Off switch, push button potentiometer control speed
Motor Stop	TTL level of user-selected polarity



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