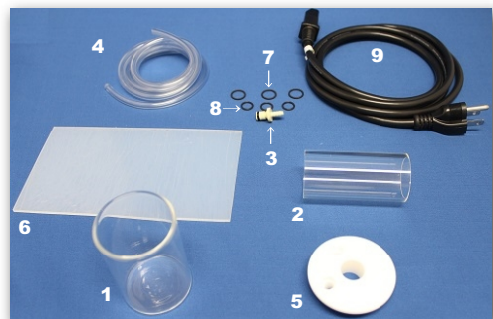


RRDE-3A Rotating Ring Disk Electrode Apparatus Ver.1.2

Quick setting manual

This quick setting manual explain the basic function settings and how to acquire data. For detail instructions and warranty terms, refer to the RRDE-3A Operating manual. Full Manual is available at: <http://www.als-japan.com/support-instrument-manual.html>
Please read the full manual before operate RRDE-3A.

1. Accessories

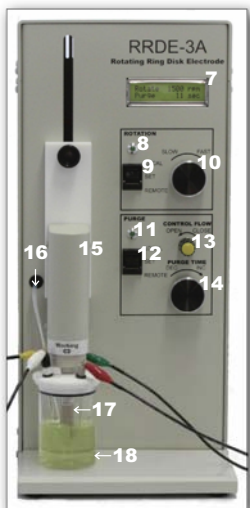


| RRDE-3A Accessory kit consists of | | | |
|-----------------------------------|--------|-------------------------------------|-----|
| | Cat # | Description | Qty |
| 1 | 012632 | Sample vial (100mL) | 1 |
| 2 | 012064 | Spin coating adapter | 1 |
| 3 | 012065 | Male connector for gas purge (PP) | 1 |
| 4 | 013392 | TYGON tubing, OD1/4 x ID1/8 | 1 |
| 5 | 013271 | RRDE-3A Teflon cap V.2 | 1 |
| 6 | 012642 | RRDE-3A Silicon sheet 100x180mm | 1 |
| 7 | | O-ring for RRDE-3A bearing assembly | 3 |
| 8 | | O-ring for RRDE-3A shaft assembly | 3 |
| 9 | | Power cable | 1 |
| | | Instruction manual | 1 |

2. References



| | Description |
|---|-------------------------------------|
| 1 | Remote Terminal |
| 2 | Power On/Off Swich |
| 3 | Fuse Holder |
| 4 | Power plug |
| 5 | Ground terminal |
| 6 | Gas Inlet Connector (5 psi maximum) |



| | Description |
|----|----------------------------|
| 7 | rpm and purge time display |
| 8 | rpm LED |
| 9 | Rotation switch |
| 10 | Rotation speed knob |
| 11 | Purge LED |
| 12 | Gas purge switch |
| 13 | Gas purge flow knob |
| 14 | Purge time knob |
| 15 | Moter shaft |
| 16 | Teflon tubes |
| 17 | Working electrode |
| 18 | Glass cell vial |

3. Quick Start

The shaft can be moved up and down by loosen the black knob.
The shaft can also be rotated at 180°



Step 1



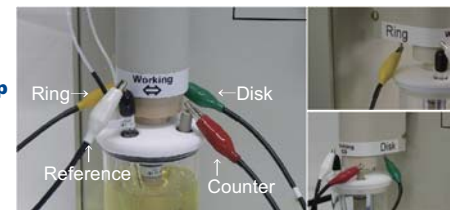
Screw the working electrode on the contact probe.

Step 3



Plug the power cable and switch on the power. If you need to purge the solution, connect the purge valve and the Tygon tube.

Step 2



Place the **cell vial** with the solution on the silicon sheet and attach the **electrode wires** of your potentiostat to the electrodes.

Immerse the **working electrode** into the solution (keep it rotating at 1500rpm during immersion to avoid any air bubble on the electrode). Place the purging tubes if necessary (black tube above the surface and the other one into the solution).

| Wire color | Electrode |
|------------|-----------|
| Green | Disk |
| White | Reference |
| Red | Counter |
| Yellow | Ring |

Electrode color code of the potentiostat

Step 4



1. Rotation switch
2. Rotation speed
3. Gas purge
4. Purge time

| Position | Action |
|----------|-------------|
| LOCAL | Activate |
| SET | Deactivate |
| REMOTE | Remote ctrl |

Your data are ready to be acquired with your potentiostat.

4. Remote connection memo

RRDE-3A back side



| RRDE-3A input | Function |
|------------------|----------------|
| IN | Rotation |
| GND (next to IN) | Analog Ground |
| PURGE | Purge |
| GND | Digital Ground |

For more details about potentiostat remote connection, please read Chapt. "A-7 Connecting other potentiostat" from the full manual.