



Specifications

Operating environment	Indoor use, pollution degree 2, altitude up to 2000 m (6562 ft.)
Operating temperature and humidity range	0°C to 40°C (32°F to 104°F), 80% RH or less (non-condensing)
Storage temperature and humidity range	0°C to 50°C (32°F to 122°F), 80% RH or less (non-condensing)
Model on which the device is mountable	RM9004 only
Dimensions	Approx. 110W × 91.5D × 135H mm (4.33"W × 3.60"D × 5.31"H)
Weight	Approx. 480 g (16.9 oz.)
Product warranty duration	1 year
Accessories	Instruction Manual Blower Cleaning film
Dimensions of air nozzles that can be inserted into the air supply ports	• Nozzle outer diameter: 1 mm to 9 mm • Nozzle length: 40 mm or more
Consumption current	0.5 A (at a voltage of 5 V)
Interface	USB 2.0
Operating environment (computer)	Windows 10, Windows 8, Windows 7

Basic Operation

 **CAUTION**




- **Do not clean probes with liquid.**
If the probe tips are cleaned with a liquid such as alcohol or water, the electrode material that has been attached to probes could melt, penetrate the gaps and solidify, preventing probes from moving.
- **Do not use any tool not specified by Hioki that makes direct contact with the probe.**
Doing so could cause damage to probes.
- **Wear a dust mask and protective goggles during operation.**
Failure to do so could cause splash of air to get into the eye or mouth.
- **Limit the projecting pressure of the air to 207 kPa (2.1 kgf/cm² or 30 psi).**
Otherwise, the operator could suffer from air embolism.

You will need:

- Air
(e.g., air duster spray, air gun, blower included accessories)
Keep in mind that if the air contains oil or other foreign objects, it could settle on the RM9004.
- Nozzle outer diameter: 1 mm to 9 mm
- Nozzle length: 40 mm or more
- Computer
Prepare a computer that matches the operating environment of the device.

Check out the video on basic operation here.
https://www.hioki.com/global/products/resistance-meters/resistance/id_6740
The customer is responsible for carrier charges.



- 1

Check that the locking lever of the RM9004 Test Fixture is lowered.
- 2

Disconnect the RM9005 Connection Cable from the RM9004.
- 3

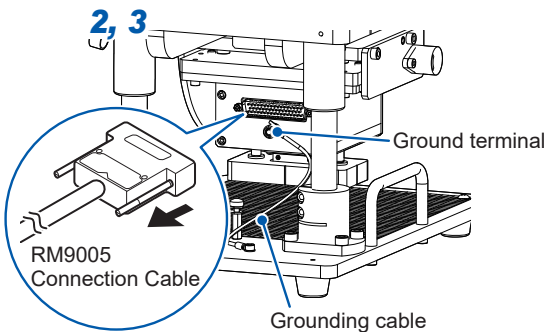
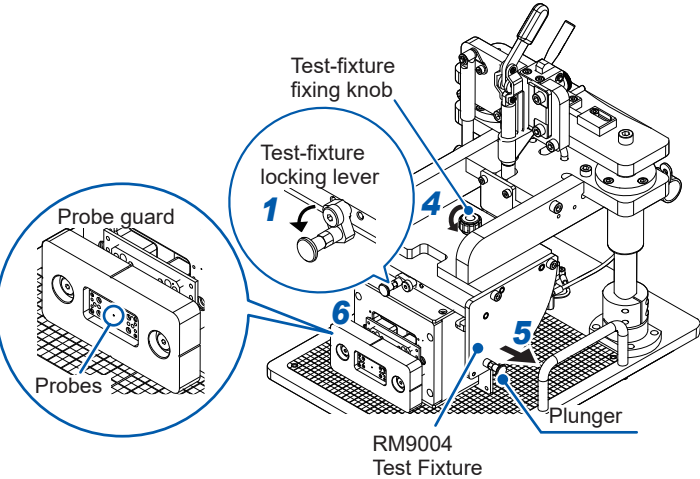
Disconnect the grounding cable from the RM9004's ground terminal.
- 4

Turn the test fixture fixing knob counterclockwise to disengage the lock.
At this time, while pressing down the RM9004, turn the fixing knob on the Test Fixture to the UNLOCK side until the screw is completely removed.
The bottom of the RM9004 faces slowly.
- 5

Pull the RM9004's maintenance plunger outward to secure the RM9004 in place.
- 7

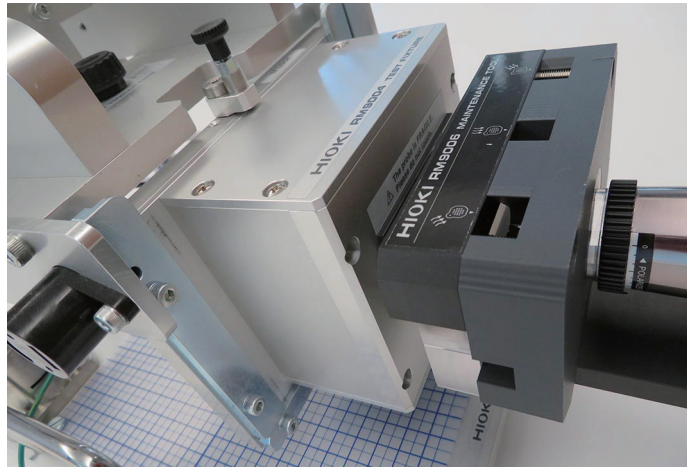
Connect the device's USB cable to your computer.
- 8

Use the computer's camera function to display the probe tips of the RM9004 on the display.
Rotate the focus magnification adjustment dial to focus on and observe the tips of the probes. If there are multiple cameras connected to the computer, switch the cameras so that the image from the device's camera is displayed.
Turn the digital microscope so that the TP6 probe is visible in the position shown below.



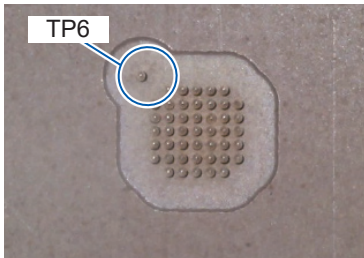
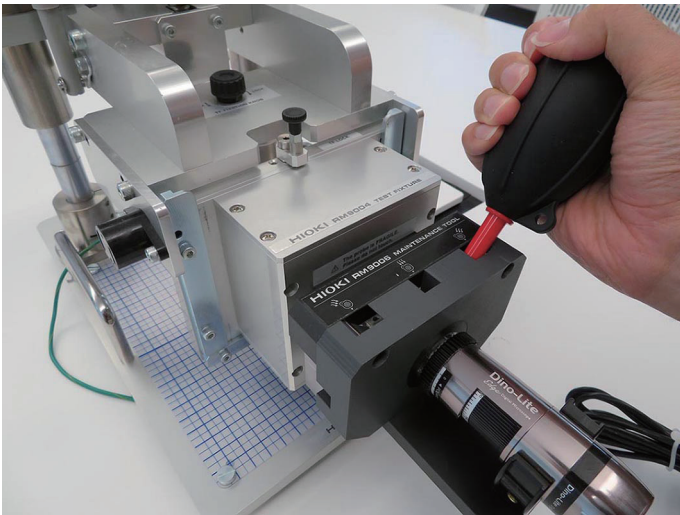
- 6

Hang the device on the probe guard.



- 9

Try to eliminate deposits on the tips of the probes by injecting air while checking the camera image.
Insert the blower's nozzle all the way into the vent before supplying air.
While observing deposits, spray air from multiple supply ports.



- Operating precautions**
 - To ensure proper operation of the RM9004 over a long period of time, remove any probe deposits after you have finished working.
 - Remove any deposits as soon as possible. Repeated measurements while there are deposits on probes will cause the deposits to settle between the probes, making it difficult to remove with air. Moreover, an error may be displayed during the open and short inspections of the RM2610.
 - If deposits cannot be removed, have the test fixture repaired.
 - If any objects adhere to the transparent protective cover of the device, remove them with air or a soft, dry cloth.

Cleaning film
Removing insulation at the tips of the probes using the included cleaning film may cause the electrical contact to resume. Use the cleaning film only when the short test of the RM2610 yields fail judgments frequently. The abrasive contained in the cleaning film could scratch the plating on the surface of the probes, causing it to oxidize, resulting in more liable to yield fail judgment during the short inspection.

- How to use**

1

Place the cleaning film on the measurement stage with the non-glossy side facing up.

2

Move the test fixture up or down several times and allow the probes to make contact with the cleaning film.
The tips of the probes are polished, resulting in better contact.

- Replace the film with a new one when it comes ineffective.
 - If the short inspection of the RM2610 yields fail judgment frequently, even when a cleaning film is used, have the RM9004 repaired.

