

HIOKI**SA9001
SA9001-01****ELECTRODE CELL
Instruction Manual**

EN

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SA9001A960-01**HIOKI****HIOKI E.E. CORPORATION**

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Introduction

Thank you for choosing the Hioki SA9001 Electrode Cell. To ensure your ability to get the most out of this device over the long term, please read this manual carefully and keep it available for future reference.

Overview

The SA9001, SA9001-01 Electrode Cell, for the Slurry Analytical Systems, can be mounted to the SA9002 Test Fixture. See the Slurry Analytical System Instruction Manual for more details, including the precautions for using the Slurry Analytical System.

SA9001 Electrode: brass (nickel plated)
 SA9001-01 Electrode: brass (gold plated)

Symbols and Abbreviations**Safety**

This manual classifies seriousness of risks and hazard levels as described below.

 WARNING	Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury or potential risks of damage to the supported product (or to other property).
 	Indicates a prohibited action.
 	Indicates a mandatory action.

Symbol for a standard

 Indicates that the product complies with standards imposed by EU directives.

Precautions for Use **WARNING**

Do not install the instrument in locations such as the following:

- In locations where it would be subject to direct sunlight or high temperatures
- In locations where it would be exposed to corrosive or explosive gases
- In locations where it would be exposed to powerful electromagnetic radiation or close to objects carrying an electric charge
- Close to inductive heating devices (high-frequency inductive heating devices, IH cooktops, etc.)
- In locations characterized by a large amount of mechanical vibration
- In locations where it would be exposed to water, oil, chemicals, or solvents
- In locations where it would be exposed to high humidity or condensation
- In locations with an excessive amount of dust
 Doing so could damage the instrument or cause it to malfunction, resulting in bodily injury.

 **CAUTION**

- Do not let the liquid to be measured come in direct contact with your skin.

The liquid coming in direct contact with your skin may have negative effects on your body. Immediately rinse your skin under running water.

- Do not touch the electrodes of the SA9001 Electrode Cell.

Otherwise, accurate measurement may not be performed.

- Do not let the liquid to be measured come in contact with the electrodes of the SA9001 Electrode Cell and SA9002 Test Fixture.

If the liquid comes in contact with the electrode, accurate measurement may not be performed.

Do not tilt the SA9001 Electrode Cell.

- Otherwise, the liquid surface of the electrode cell tilts and the measured value may be affected.

- Do not let the liquid to be measured come in contact with the electrode of the SA9001 Electrode Cell.

If the liquid comes in contact with the electrode, accurate measurement may not be performed.

- Do not apply excessive force to the SA9001 Electrode Cell and the SA9002 Test Fixture.

The instrument can be damaged and the liquid can leak.

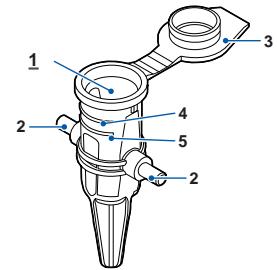
- Always wear gloves when handling the electrode cell.

The liquid coming in direct contact with your skin may have negative effects on your body.

- Securely close the lid of the SA9001 Electrode Cell.

Otherwise, the liquid surface of the electrode cell tilts and the measured value may be affected.

See the Slurry Analytical System Instruction Manual for more details, including how to handle the SA9001 Electrode Cell.

Parts Names

No.	Name	Function
1	Cell	Holds the liquid to be measured.
2	Electrodes	Connect the SA9002 Test Fixture to the liquid to be measured.
3	Lid	Close the lid when performing measurement.
4	Liquid-level upper-limit line	Put the liquid to be measured into the cell so it is below this line.
5	Liquid-level lower-limit line	Put the liquid to be measured into the cell so it is above this line.

Specifications

Dimensions	Approx. 27W x 42H x 37D mm (1.06" W x 1.65" D x 1.46" H, including the electrode) With the lid closed: approx. 27W x 40H x 20D mm (1.06" W x 1.57" D x 0.79" H, including the electrode)
Weight	Approx. 2.3 g (0.1 oz.)
Material	Container: polypropylene (PP) Electrode: brass (nickel plated) SA9001 : brass (gold plated) SA9001-01
Capacity	Approx. 1 mL
Electrode pin	Number of pins: 2 Length: 10.5 mm ±0.1 mm Diameter (Area where liquid to be measured comes in contact): 3 mm ±0.1 mm Diameter (Area where the fixture comes in contact): 3 mm ±0.1 mm Electrode interval: 6 mm ±0.3 mm Surface finish: Nickel plating (SA9001) Gold plating (SA9001-01)
Aspect ratio	Depth: approx. 16.5 mm; diameter: approx. 8.6 mm
Operating temperature and humidity range	23°C ±5°C (73°F ±9°F), 80% RH or less (non-condensing)
Storage temperature and humidity range	-10°C to 50°C (-41°F to 122°F), 80% RH or less (non-condensing)
Operating environment	Indoor use, altitude up to 2000 m (6562 ft.)
Accessories	Instruction Manual
Product warranty duration	Not covered by the warranty due to consumables