# 9014, 9017

## HIGH VOLTAGE PROBE

**Instruction Manual** 

Apr. 2020 Revised edition 11 9014A980-11 20-04H

# Safety

This manual contains information and warnings essential for safe operation of the device and for maintaining it in safe operating condition. Before using it, be sure to carefully read the following safety precautions.

• To clean the device, wipe it gently with a soft cloth

· If the device seems to be malfunctioning, check the test leads for breaks before contacting your authorized

· Pack the device so that it will not sustain damage during shipping, and include a description of existin

damage. We cannot accept responsibility for damag

moistened with water or mild detergent. Never use solvents such as benzene, alcohol, acetone, ether, ketones, thinners or gasoline, as they can deform and

#### Safety Symbol

**Maintenance and Service** 

Hioki distributor or reseller.

incurred during shipping.

discolor the case.

In the manual, the A symbol indicates particularly important information that the user should read before using the device.



The riangle symbol printed on the device indicates that the user should refer to a corresponding topic in the manual (marked with the 🗥 symbol) before using the relevant function.

The following symbols in this manual indicate the relative impo tance of cautions and warnings.

Indicates that incorrect operation presents an extreme hazard that could result in serious injury or death to the user.

Indicates that incorrect operation presents a significant hazard that could result in serious injury or death to the user.

Indicates that incorrect operation presents a possibility of injury to the user or damage to the

NOTE

Indicates advisory items related to performance or correct operation of the device

# Inspection and Maintenance

ie High Voltage Probe allows you to measure high voltage by

ing a tester with a lower-voltage (or current) range setting.

nce high voltage is not applied across the input terminals di-

ctly, insulation deterioration of the input terminals can be pre-

The 9014 is suited for use with a measuring instrument that

The 9017 is for an analog tester, and is used in the specified

voltage range (3 VDC) of the tester. (up to 30 kVDC)

#### itial Inspection

has input resistance of 10 M $\Omega$ .

Overview

hen you receive the device, inspect it carefully to ensure that damage occurred during shipping. If damage is evident, or if fails to operate according to the specifications, contact your ıthorized Hioki distributor or reseller.

his device is not designed for measuring large apacity electric circuits.

o not use it to measure power lines as doing so light result in human or electric accidents.

# **Usage Notes**



Follow these precautions to ensure safe operation and to obtain the full benefits of the various functions.

Use of the device should confirm not only to its specifications, but also to the specifications of all accessories, options, and other equipment in use.

### **Preliminary Checks**

To ensure that the device is properly operating, conduct an inspection and check device operation before using device to ensure that no damage has occurred during storage or transport.

### **∴WARNING**

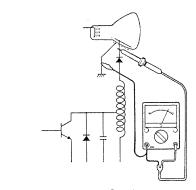
- Do not allow the device to get wet, and do not take measurements with wet hands. This may cause an electric shock.
- Finish measurement as quickly as possible. Do not keep the measuring tip in contact with a circuit under measurement for a long time.
- To avoid electric shock when measuring live lines, wear appropriate protective gear, such as insulated rubber gloves, boots and a safety helmet.
- Before using the device, make sure that the insulation on the test leads is undamaged and that no bare conductors are improperly exposed. Using the device in such conditions could cause an electric shock. Contact your authorized Hioki distributor or reseller.

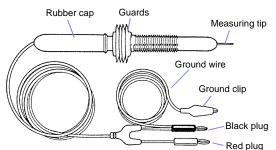
#### **⚠CAUTION**

Do not store or use the device where it could be exposed to direct sunlight, high temperature or humidity, or condensation. Under such conditions, the device may be damaged and insulation may deteriorate so that it no longer meets specifications.

#### NOTE

- The device can be used to measure DC voltage only. Do not measure AC voltage.
- Do not measure the voltage of a flyback transformer in a television. You can use the device to measure the anode voltage of a cathode-ray tube.





# **Specifications**

Model	Input imped- ance	Measurement voltage	Accuracy	Output
9014	1000 ΜΩ	0 - 30 kVDC	±5%rdg	0 - 30 V DC
9017	600 MΩ	0 - 30 kVDC		0 - 3 VDC

Model	Compatible Model	Tester measurement range	Input impedance
	3256-50	42 VDC	
9014	3257-50	42 VDC	10 ΜΩ
	3801-50	51 VDC	
9017	3030-10	3 VDC	60 kΩ

<sup>\*</sup>The accuracy of the compatible model used shall be added to the accuracy above.

# **Measurement Procedure**

### 9014 High Voltage Probe

- 1 Set the range of the compatible tester to the corresponding tester measurement range as shown in the table above. (For how to set the range, refer to the instruction manual for the compatible tester.)
- 2 Connect the black plug to the (-) COM terminal, and the red plug to the (+) terminal.
- 3 Connect the ground clip to the ground (or chassis) of an object under measurement. Then, place the measuring tip into contact with a measurement place.
- 4 Read the indicated value.
- 5 Multiply the indicated value by 1000 to obtain the measured value.

#### 9017 High Voltage Probe

- 1 Set the range of the compatible tester to the 3 V DC range
- 2 Connect the black plug to the (-) terminal, and the red plug to the (+) terminal.
- 3 Connect the ground clip to the ground (or chassis) of an object under measurement. Then, place the measuring tip into contact with a measurement place.
- 4 Read the indicated value using the scale whose fullscale is 30.
- Multiply the indicated value by 1000 to obtain the measured value.