

L2100

PIN TYPE LEAD

Instruction Manual

EN

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L2100A980-05

HIOKI

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All regional
contact
information

Introduction

Thank you for purchasing the Hioki Model L2100 Pin Type Lead. To obtain maximum performance from the product, over the long term, be sure to read this manual carefully and keep it handy for future reference.

Target audience

This manual has been written for use by individuals who use the product in question or who teach others to do so. It is assumed that the reader possesses basic electrical knowledge (equivalent to that of someone who graduated from the electrical program at a technical high school).

Overview

This pin type lead is a high-voltage pin-shaped leads incorporate a four-terminal design and can be used with up to 1000 V DC, making them ideal for use with high-voltage battery packs and cells with high input-to-ground voltages. Its two parallel 1.8-millimeter extendable coil pins make it possible to achieve stable connections with the subjects of measurement, as well as measurement using the testing holes in battery terminal covers.

Safety

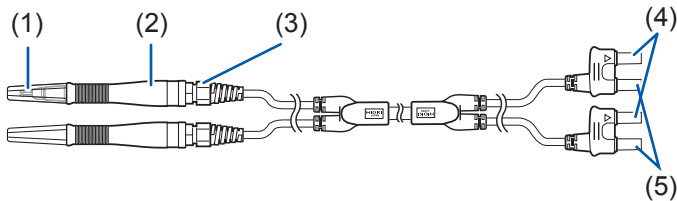
Before use, be sure to also read the safety notes of the measuring instrument to be connected.

Operation Precautions

CAUTION

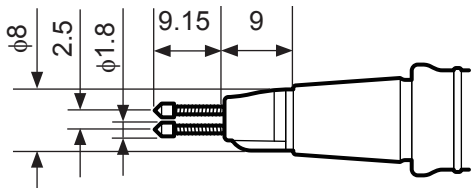
- ! To avoid damage, do not contact the test lead tip against the object under measurement at a tilted angle.

Part Names



(1)	Tip pin (Parallel pins)
(2)	Grip
(3)	Cable lock
(4)	SENSE connector
(5)	SOURCE connector

Enlarged view of tip



Unit: mm

Procedure

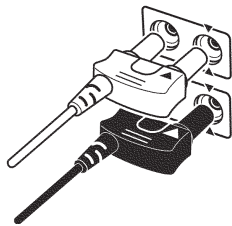
Preliminary Checks

Before using the product, verify that it operates normally to ensure that the no damage occurred during storage or shipping. Points to check include the pin operation and whether the pin and cable lock are loose. As loose screwing of the cable lock and other components can result in damage, be sure to tighten them securely before use. If you find any damage, contact your authorized Hioki distributor or reseller.

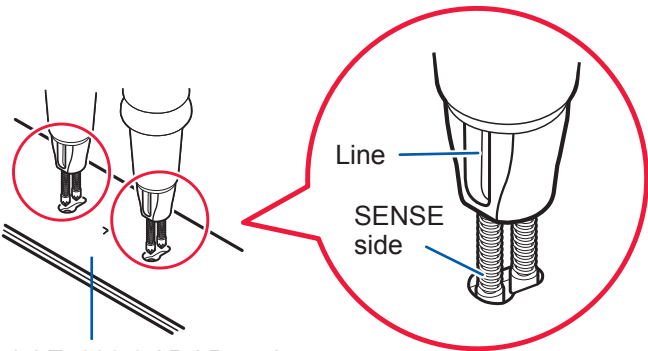
Caps are placed on the pins for protection during transport. Remove the caps before use. Fit the protective pin caps when the product is not in use.

- 1 Make sure that power of the measuring instrument is off.
- 2 Connect the pin type lead to the input terminal of the instrument.

Plug the ▲ mark on the red lead into the red ▲marked jack on the instrument, and plug the ▲ mark on the black lead into the black ▲marked jack on the instrument.



- 3 Perform zero adjustment. Be sure to use Z5038 0 ADJ Board. See the instruction manual for details of measuring instrument.



Model Z5038 0 ADJ Board

Each sensor pin has a line affixed to its base. When using the zero-adjust feature, align these lines in the same direction. Choose a hole suited to the distance between the terminals on the battery subject to measurement and hold the test lead against the zero adjustment board so that it remains symmetrical to the central plus sign (+) on the board, inserting each SENSE pin (line side) into the larger side of each elongate hole.

- 4 Connect the model L2100 to a measurement target.

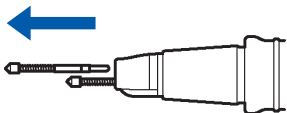
For a more detailed explanation, see the instruction manual of measuring instrument

Replacing the Tip Pin (Option)

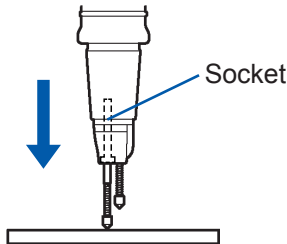
The tip pin is replaceable. Replace the pin with a new one if it is broken or worn. Replacement pins, including plastic pin base, can be purchased separately by specifying Model 9772-90 Tip Pin. (One pin per package.) To purchase Model 9772-90 Tip Pin for replacement, contact your authorized Hioki distributor or reseller.

Tools to be prepared: Model 9772-90 Tip Pin, pliers, etc.

- 1 Turn off the measuring instrument, and disconnect the cable.
- 2 Pull out the pin tip to be replaced using pliers or a similar tool.



- 3 Insert the new 9772-90 Tip Pin into the socket and press it against a hard board or other surface to fix the pin firmly in place.



- 4 Check the operation. Measure an object with a known resistance. Make sure the instrument indicates the correct resistance value before using the pin type lead.

Specifications

Operating Environment	Indoors, pollution degree 2, altitude up to 2000 m (6562 ft.)
Operating temperature and humidity	0°C to 40°C (32°F to 104°F), 80% RH or less (no condensation)
Storage temperature and humidity	–10°C to 50°C (14°F to 122°F), 80% RH or less (no condensation)
Standard	Safety: EN61010
Dimension	Approx. 1400 mm (55.12")
Mass	Approx. 180 g (6.3 oz.)
Accessory	Instruction manual (this document)
Option	9772-90 Tip Pin
Rated input voltage	1000 V DC
Maximum rated voltage to earth	1000 V DC Anticipated transient overvoltage: 1500 V
Rated current	2 A DC continuous
Pin processing	Gold plating