

インターフェースを取り外すとき：
電源コードをコンセントから抜き、上記の逆の手順でインターフェースを取り外します。

Z3001

RS-232C INTERFACE

Instruction Manual

EN

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Z3001A980-03 18-11H

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Warranty

Warranty malfunctions occurring under conditions of normal use in conformity with the Instruction Manual and Product Precautionary Markings will be repaired free of charge. This warranty is valid for a period of three (3) years from the date of purchase. Please contact the distributor from which you purchased the product for further information on warranty provisions.

Introduction

Thank you for purchasing the HIOKI Model Z3001 RS-232C Interface. To obtain maximum performance from the device, please read this manual first, and keep it handy for future reference.

Overview

By equipping a measuring instrument with the Z3001 RS-232C Interface, you can control instrument functionality via an RS-232C connection.

Inspection and Maintenance

Inspection

When you receive the device, inspect it carefully to ensure that no damage occurred during shipping. If damage is evident, or if it fails to operate according to the specifications, contact your dealer or Hioki representative.

Preliminary Checks

- Before using the device for the first time, verify that it operates normally to ensure that no damage occurred during storage or shipping. If you find any damage, contact your dealer or Hioki representative.

Maintenance and Service

- To clean the device, wipe it gently with a soft cloth moistened with water or mild detergent. Never use solvents such as benzene, alcohol, acetone, ether, ketones, thinners or gasoline, as they can deform and discolor the case.

- If the device seems to be malfunctioning, contact your dealer or Hioki representative. Pack the device so that it will not sustain damage during shipping, and include a description of existing damage. We do not take any responsibility for damage incurred during shipping.

Safety Information

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.

⚠ DANGER

This device is designed to comply with IEC 61010 Safety Standards, and has been thoroughly tested for safety prior to shipment. However, mishandling during use could result in injury or death, as well as damage to the device. Using the device in a way not described in this manual may negate the provided safety features.

Be certain that you understand the instructions and precautions in the manual before use. We disclaim any responsibility for accidents or injuries not resulting directly from device defects.

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

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

NOTE

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

Symbols for Various Standards



WEEE marking:
This symbol indicates that the electrical and electronic appliance is put on the EU market after August 13, 2005, and producers of the Member States are required to display it on the appliance under Article 11.2 of Directive 2002/96/EC (WEEE).



This symbol indicates that the product conforms to safety regulations set out by the EC Directive.

Specifications

Product warranty period	3 years
Connector	9-pin D-sub
Operating temperature and humidity	0°C to 40°C (32°F to 104°F), 20%RH to 80%RH or less (non-condensation)
Storage temperature and humidity	-10°C to 55°C (14°F to 131°F), 20%RH to 80%RH or less (non-condensation)
Operating environment	Indoors, altitude up to 2000 m (6562-ft.)
Dimensions	Approx. 90W × 28H × 82D mm (3.54"W × 1.10"H × 3.23"D) (excluding protrusions)
Mass	Approx. 60 g (2.1 oz.)
Accessories	Instruction manual ... 1

Operating Precautions



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

Instrument Installation

Operating temperature and humidity: 0°C to 40°C, 20%RH to 80%RH or less (non-condensation)

Avoid the following locations that could cause an accident or damage to the instrument.



Exposed to direct sunlight
Exposed to high temperature



In the presence of corrosive or explosive gases



Exposed to water, oil, other chemicals, or solvents
Exposed to high humidity or condensation



Exposed to strong electromagnetic fields
Near electromagnetic radiators



Exposed to high levels of particulate dust



Near induction heating systems (e.g., high-frequency induction heating systems and IH cooking utensils)



Subject to vibration

⚠ WARNING

- Do not attempt to modify, disassemble or repair the device; as fire, electric shock and injury could result.
- To avoid electric shock accident, before removing or replacing an input module, confirm that the instrument is turned off and that the power cord and connection cables are disconnected.
- Always turn both devices OFF when connecting and disconnecting an interface connector. Otherwise, an electric shock accident may occur.
- The mounting screws must be firmly tightened or the input module may not perform to specifications, or may even fail.
- Failure to fasten the connectors properly may result in sub-specification performance or damage to the equipment.

⚠ CAUTION

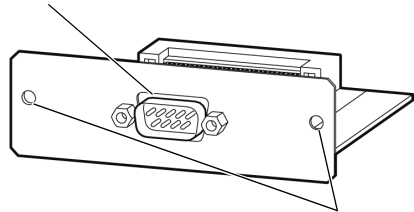
- This device is not drip-proof. Water droplets on the grip or connector may result in malfunctions.
- Do not slant the device or place it on top of an uneven surface. Dropping or knocking down the device can cause injury or damage to the device.
- To avoid damage to the device, protect it from physical shock when transporting and handling. Be especially careful to avoid physical shock from dropping.
- When inserting in the interface, hold the metal plate. Directly touching the board may cause static electricity and lead to damage of the instrument. (Using the wrist strap for preventing static electricity when inserting is recommended.)

NOTE

For details on a device to be connected, refer to the instruction manual of the device to be connected.

Names of Parts

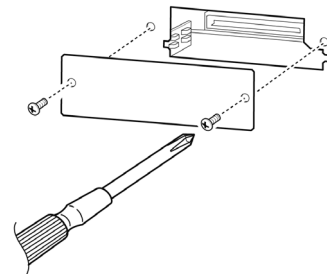
RS-232C connector



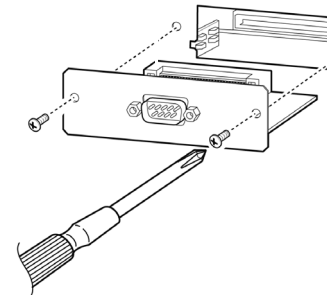
Holes used to secure the interface in place

Installing and Removing the Interface

- 1 Unplug the target instrument's power cord from the wall outlet.
- 2 Remove the two fixing screws from the blank panel (M3×6 mm).



- 3 Remove the blank panel.
- 4 Taking care to align the interface properly and to avoid touching the surface of the circuit board, insert it firmly as far as it will go.
- 5 Tighten the two fixing screws (M3×6 mm) through the holes provided for securing the interface in place with a Phillips head screwdriver.



- 6 Connecting the RS-232C Cable.
Connect the RS-232C cable to the RS-232C connector. Recommended cable: 9637 RS-232C Cable
- 7 Use a PC to communicate with the instrument.
For more information about data communications, see the instrument's instruction manual.

When removing the interface:
Unplug the power cord from the wall outlet and perform the above procedure in reverse to remove the interface.