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**User's  
Manual**

**701934  
Power Supply**

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## Foreword

Thank you for purchasing the 701934 Power Supply.

This user's manual contains useful information about the functions and operating procedures of the 701934 Power Supply as well as precautions that should be observed during use. To ensure proper use of the instrument, please read this manual thoroughly before beginning operation.

After reading this manual, please keep it in a convenient location for reference whenever a question arises during operation.

## Revisions

1st Edition: May 2004

2nd Edition: November 2005

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## The following markings are used in this manual.



*Improper handling or use can lead to injury to the user or damage to the instrument.* This symbol appears on the instrument to indicate that the user must refer to the user's manual for special instructions. The same symbol appears in the corresponding place in the user's manual to identify those instructions. In the manual, the symbol is used in conjunction with the word "WARNING" or "CAUTION."

### **WARNING**

Describes precautions that should be observed to prevent the danger of injury or death to the user.

### **CAUTION**

Describes precautions that should be observed to prevent minor or moderate injury, or damage to the instrument.

### **Note**

Provides important information for the proper operation of the instrument.

## Checking the Contents of the Package

If some items are missing or otherwise inconsistent with the contents description, please contact your dealer or nearest YOKOGAWA representative.

701934 Power Supply (main unit)

Accessories

- User's manual (this document) 1
- Power cord 1
- Spare fuse (inside the fuse holder) 1  
T3.15AL/250 V, 5 mm (dia.) x 20 mm

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## Symbols Used on This Instrument

This is an IEC safety class I instrument (with protective grounding).

The following general safety precautions must be taken during all phases of operation, service, and repair of this instrument. If this instrument is used in a manner not specified in this manual, the protective features provided by the instrument may be impaired. Also, Yokogawa Electric Corporation assumes no liability for the customer's failure to comply with these requirements.

### The instrument is marked with the following symbols.



To avoid injury, death of personnel or damage to the instrument, the operator must refer to an explanation in the User's Manual or Service Manual.



Functional grounding terminal (This terminal should not be used as a "Protective grounding terminal".)



Alternating current.



ON (power).



OFF (power).

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## Important Information for Users

Please heed the following warnings and cautions to ensure safe use of the instrument and to obtain maximum performance.



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### **WARNING**

This instrument connects to a grounding wire using the included grounding type 2-prong power cord. To prevent accidents such as electric shock, connect the power cord to a grounded 2-prong outlet.

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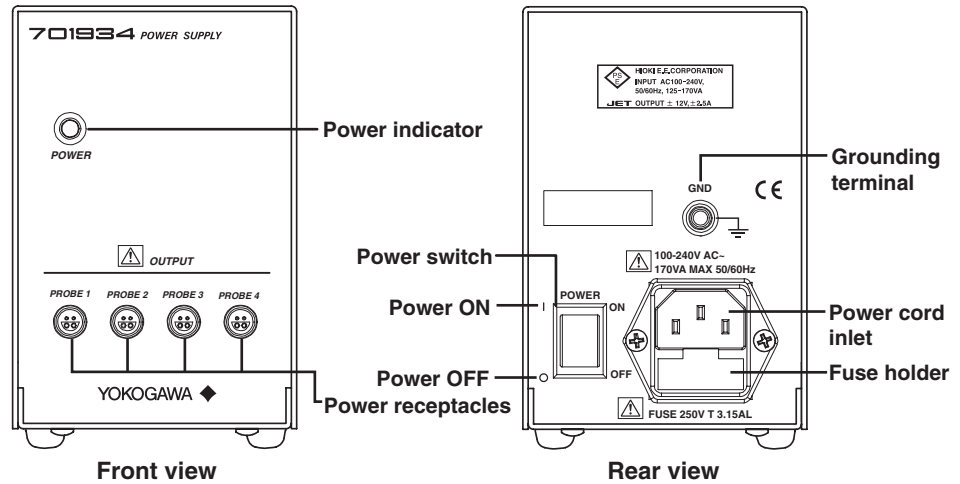
### **CAUTION**

- Do not expose the instrument to vibration or physical shock during shipping and handling. Take particular caution never to drop the instrument.
  - Avoid storing or using the instrument in locations that are exposed to direct sunlight, high temperatures, or condensation. These conditions can result in deformation, discoloring, or other changes causing failure to meet product specifications.
  - Before using the instrument, please perform an inspection and operational test to check for any damage that may have occurred due to improper storage or shipping. If damage is found, contact your nearest dealer or Yokogawa representative.
  - When unplugging the power cord from the outlet or the instrument, never pull by the cord itself. Always hold and pull by the plug.
  - This instrument is not waterproof or dustproof. Do not use the instrument in locations with a large amount of water or dust.
  - To clean the instrument, wipe using a soft cloth with a small amount of water or mild detergent. Never use detergents that contain benzene, alcohol, acetone, ethyl compounds, ketones, thinner, or gasoline as deformation or discoloration can result.
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## Product Overview

This instrument is a power supply for probes. Four power supply receptacles are located on the front panel, allowing simultaneous powering of up to four probes.

## Names of Parts



## Operating Procedure

### Preparation



### **CAUTION**

Before turning on the power, make sure that the power supply voltage indicated on the back of the instrument matches that of the power outlet you are using.

- 1 Turn the power switch OFF, then connect the power cord.
- 2 Connect the power plug of the DL series wide bandwidth current probe you are using to a power receptacle on the instrument.
- 3 Turn ON the power switch, and confirm that the power indicator on the front panel illuminates.

### Performing Measurement

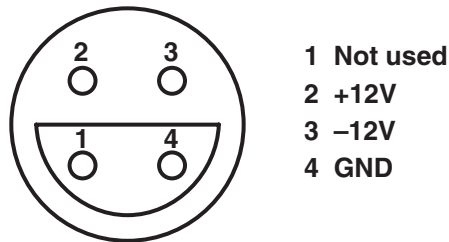
Refer to the user's manual of the current probe you are using (model 700937, 701930, 701931, 701932 or 701933).

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## Description of Parts

### Power Receptacles

The pin arrangement within the receptacles is shown in the figure below.



### Replacing the Power Fuse

If the power fuse blows, follow the procedure below to replace it.



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#### WARNING

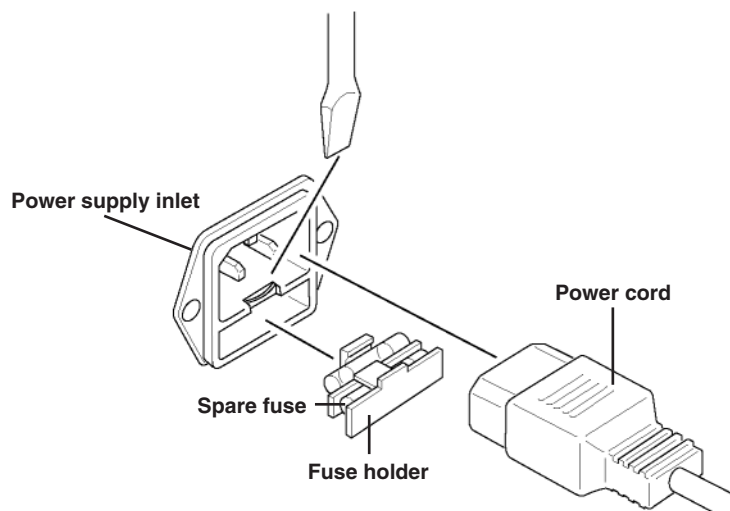
- To avoid accidents such as electric shock, you must disconnect the power cord from the outlet before attempting to replace the power fuse.
- Be sure to use a power fuse of the designated type and rating. Bodily injury can result when using a fuse other than the one specified, or when shorting the fuse holder. Never use the wrong fuse or short the fuse holder.

Power fuse rating and type: T3.15AL/250 V, 5 mm (dia.) x 20 mm

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#### Replace the power fuse according to the following steps.

- 1 Turn the power switch OFF, then remove the power cord.
- 2 Use a flathead screwdriver or similar tool to pry the fuse holder out from the power supply inlet and remove.
- 3 Replace the power fuse.
- 4 Reinsert the fuse holder into the power supply inlet.





## Specifications

### Product Specifications

<b>Compatible Probes</b>	700937 Current Probe, 700939 FET Probe 701920 Differential Probe, 701930 Current Probe 701931 Current Probe, 701932 Current Probe 701933 Current Probe
<b>No. of Power Receptacles</b>	4
<b>Output Voltage</b>	$\pm(12 \pm 0.5) \text{ V}$
<b>Operating Temperature/Humidity</b>	0 to 40°C, 80% RH or less (no condensation may be present)
<b>Storage Temperature/Humidity</b>	-10 to 50°C, 80% RH or less (no condensation may be present)
<b>Operating Altitude</b>	Up to 2000 m, indoors
<b>Rated Output Current</b>	$\pm 2.5 \text{ A}$ (total value for each output)
<b>Rated Supply Voltage</b>	100 to 240 VAC (actual power supply voltage may fluctuate within $\pm 10\%$ of the rating)
<b>Ripple Voltage</b>	50 mVp-p
<b>Rated Power Supply Frequency</b>	50/60 Hz
<b>Rated Power</b>	170 VA (at the rated output current)
<b>External Dimensions</b>	80 (W) × 119 (H) × 200 (D) mm
<b>Weight</b>	Approx. 1.2 kg
<b>Accessories</b>	Power cord, user's manual, spare fuse

### Standards Compliance

<b>Safety</b>	EN61010-1, pollution degree 2
<b>EMC</b>	EN61326 EN61000-3-2 EN61000-3-3

### Malfunction? First, Investigate.

Contact your nearest Yokogawa dealer or representative if servicing is required, or if the instrument fails to operate normally after taking appropriate corrective actions.

Description	Possible Problem	Corrective Action
No power coming to the instrument.	Power fuse blown.	Replace the fuse.