
**User's
Manual**

**701934
Power Supply**

User Registration

YOKOGAWA provides registered users with useful information and services. Please allow us to serve you best by completing the user registration form accessible from our website.

<https://tmi.yokogawa.com/support/>



Contact Us

If you want to resolve a technical support issue or need to contact YOKOGAWA, please fill out the inquiry form on our website.

<https://tmi.yokogawa.com/contact/>



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.

List of Manuals

The following manuals are provided for the 701934 Power Supply.

Manual Title	Manual No.	Notes
701934 Power Supply User's Manual	IM 701934-01E	This manual.
701934 Power Supply User's Manual	IM 701934-92	Document for China
701934 Power Supply User's Manual	IM 701934-93Z2	Document for Korea
Safety Instruction Manual	IM 00C01C01-01Z1	Safety manual (European languages)

The "E" and "Z2" in the manual numbers are the language codes.

Contact information of Yokogawa offices worldwide is provided on the following sheet.

Document No.	Description
PIM113-01Z2	List of worldwide contacts

Revisions

1st Edition: May 2004
2nd Edition: November 2005
3rd Edition: October 2008
4th Edition: November 2015
5th Edition: October 2017
6th Edition: July 2019
7th Edition: April 2021
8th Edition: November 2021

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)

MODEL	Suffix	Description
701934		Main device
Power cord ¹	-D	UL/CSA standard, maximum rated voltage: 125 V
	-F	VDE standard, maximum rated voltage: 250 V
	-R	AS standard, maximum rated voltage: 250 V
	-Q	BS standard, maximum rated voltage: 250 V
	-H	GB standard, maximum rated voltage: 250 V
	-N	Brazilian standard, maximum rated voltage: 250 V
	-T	Taiwanese standard, maximum rated voltage: 125 V
	-B	Indian standard, maximum rated voltage: 250 V
	-U	IEC Plug Type B, maximum rated voltage: 250 V
	-Y	No power cord included. ²

1 Make sure that the attached power cord meets the designated standards of the country and area that you are using it in.

2 Prepare a power cord that complies with the standard specified by the country or region that the instrument will be used in.

Standard Accessories

Item	Model or Part No.	Quantity	Specifications and Notes
Power cord*	A1006WD	1	UL/CSA standard
	A1009WD		VDE standard
	A1024WD		AS standard
	A1054WD		BS standard
	A1064WD		GB standard
	A1088WD		Brazilian standard
	A1100WD		Taiwanese standard
	A1101WD		Indian standard
	A1102WD	IEC Plug Type B	
Manuals	IM 701934-01E	1	User's Manual (this guide)
	IM 701934-92	1	Document for China
	IM 701934-93Z2	1	Document for Korea
	IM 00C01C01-01Z1	1	Safety manual (European languages)
	PIM 113-01Z2	1	List of worldwide contacts

Standard accessories are not covered by warranty.

* Make sure that the attached power cord meets the designated standards of the country and area that you are using it in. If the suffix code is -Y, a power cord is not included.

Safety Precautions

This product is designed to be used by a person with specialized knowledge. 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. YOKOGAWA assumes no liability for the customer's failure to comply with these requirements.

This manual is part of the product and contains important information. Store this manual in a safe place close to the instrument so that you can refer to it immediately. Keep this manual until you dispose of the instrument.

Operating Environment and Conditions

This instrument complies with the EMC standard under specific operating environment and operating conditions. If the installation, wiring, and so on are not appropriate, the compliance conditions of the EMC standard may not be met. In such cases, the user will be required to take appropriate measures.

The instrument is marked with the following symbols.



Warning: handle with care. Refer to the user's manual or service manual. This symbol appears on dangerous locations on the instrument which require special instructions for proper handling or use. The same symbol appears in the corresponding place in the manual to identify those instructions.



Ground or the functional ground terminal (do not use as the protective earth ground terminal)



Alternating current



ON (power)



OFF (power)

French



Avertissement : À manipuler délicatement. Toujours se reporter aux manuels d'utilisation et d'entretien. Ce symbole a été apposé aux endroits dangereux de l'instrument pour lesquels des consignes spéciales d'utilisation ou de manipulation ont été émises. Le même symbole apparaît à l'endroit correspondant du manuel pour identifier les consignes qui s'y rapportent.



Borne de terre ou borne de terre fonctionnelle (ne pas utiliser cette borne comme prise de terre.)



Courant alternatif



Marche (alimentation)



Arrêt (alimentation)

Precautions

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



WARNING

Use the Correct Power Cord and Plug

To prevent the possibility of electric shock or fire, be sure to use the power cord for the instrument. The main power plug must be plugged into an outlet with a protective earth terminal. Do not invalidate this protection by using an extension cord without protective earth grounding. Further, do not use this power cord with other instruments.

Connect the Protective Ground Terminal

Be sure to connect the protective earth to prevent electric shock before turning ON the power. The power cord that you can use for the instrument is a three-prong cord. Connect the power cord to a properly grounded three-prong outlet.



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.
 - Nothing should be placed on top of the power cord, and it should be kept away from any heat sources. When removing the plug from the power outlet, do not pull on the cord. Pull from the plug. If the power cord is damaged or if you are using the instrument in a location where the power supply specifications are different, purchase a power cord that matches the specifications of the region that the instrument will be used in.
 - 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.
-

French

**AVERTISSEMENT****Utiliser le cordon d'alimentation et la fiche adaptés**

Pour éviter tout risque de choc électrique, utiliser exclusivement le cordon d'alimentation prévu pour cet instrument. La fiche doit être branchée sur une prise secteur raccordée à la terre. En cas d'utilisation d'une rallonge, celle-ci doit être impérativement reliée à la terre. Par ailleurs, ne pas utiliser ce cordon d'alimentation avec d'autres instruments.

Brancher la prise de terre

Avant de mettre sous tension, veiller à brancher la mise à la terre de protection afin d'éviter les chocs électriques. Le cordon d'alimentation que vous utilisez pour l'instrument est un cordon à trois broches. Brancher le cordon d'alimentation sur une prise de courant à trois plots et mise à la terre.

**ATTENTION**

- Ne pas soumettre l'appareil à des vibrations ou des chocs lors du transport ou de la manipulation. Il faut être particulièrement attentif à ne pas faire chuter l'appareil.
- Ne pas stocker l'appareil dans un endroit où il sera exposé aux rayons directs du soleil, à une température élevée, à une humidité élevée ou à la condensation. L'exposition à de telles conditions risque d'endommager l'appareil, détériorer l'isolation de l'appareil et l'appareil risque de ne plus répondre à ses spécifications.
- Veuillez effectuer une inspection avant toute utilisation de l'appareil et vérifiez son fonctionnement pour vous assurer qu'il n'a pas été endommagé en raison de mauvaises conditions de stockage ou de transport. En cas de dommages, contactez votre revendeur ou votre représentant YOKOGAWA.
- Rien ne doit être placé sur le cordon d'alimentation et il faut le tenir à l'écart de toute source de chaleur. Ne pas retirer le cordon lorsque vous débranchez la prise de courant. Tirez de la fiche. Si le cordon d'alimentation est endommagé ou si vous utilisez l'instrument dans un emplacement où les spécifications d'alimentation sont différentes, achetez un cordon d'alimentation conformément aux spécifications de l'emplacement où l'instrument sera utilisé.
- Cet appareil n'est pas conçu pour être étanche à l'eau ou à la poussière. Par conséquent, ne pas l'utiliser dans un environnement très poussiéreux ou dans un environnement où il sera humide.

Safety Precautions

- Essuyez délicatement la saleté de la surface de l'appareil avec un chiffon doux légèrement imprégné d'eau ou de détergent doux. Ne pas tenter de nettoyer l'appareil avec des produits de nettoyage contenant des solvants organiques comme le benzène, l'alcool, l'acétone, l'éther, les cétones, les diluants ou l'essence. Ces produits risquent d'entraîner une décoloration ou des dommages.
-

Regulations and Sales in Various Countries and Regions

Waste Electrical and Electronic Equipment (WEEE)



(EU WEEE Directive valid only in the EEA* and UK WEEE Regulation in the UK)

This product complies with the WEEE marking requirement. This marking indicates that you must not discard this electrical/electronic product in domestic household waste. When disposing of products in the EEA or UK, contact your local Yokogawa office in the EEA or UK respectively.

* EEA: European Economic Area

Authorized Representative in the EEA

Yokogawa Europe B.V. is the authorized representative of Yokogawa Test & Measurement Corporation for this product in the EEA. To contact Yokogawa Europe B.V., see the separate list of worldwide contacts, PIM 113-01Z2.

關於在台灣銷售

This section is valid only in Taiwan.

關於在台灣所販賣的符合其相關規定的電源線 A1100WD 的限用物質含量信息，請至下麵的網址進行查詢

<https://tmi.yokogawa.com/support/service-warranty-quality/product-compliance/>

Disposal

When disposing of YOKOGWA products, follow the laws and ordinances of the country or region where the product will be disposed of.

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

Calls attention to actions or conditions that could cause serious or fatal injury to the user, and precautions that can be taken to prevent such occurrences.

CAUTION

Calls attention to actions or conditions that could cause light injury to the user or damage to the instrument or user's data, and precautions that can be taken to prevent such occurrences.

French

AVERTISSEMENT

Attire l'attention sur des gestes ou des conditions susceptibles de provoquer des blessures graves (voire mortelles), et sur les précautions de sécurité pouvant prévenir de tels accidents.

ATTENTION

Attire l'attention sur des gestes ou des conditions susceptibles de provoquer des blessures légères ou d'endommager l'instrument ou les données de l'utilisateur, et sur les précautions de sécurité susceptibles de prévenir de tels accidents.

Note

Calls attention to information that is important for proper operation of the instrument.

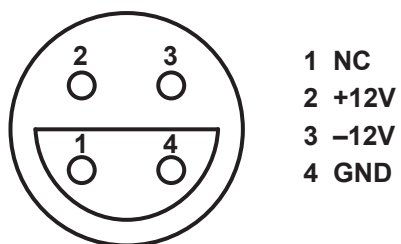
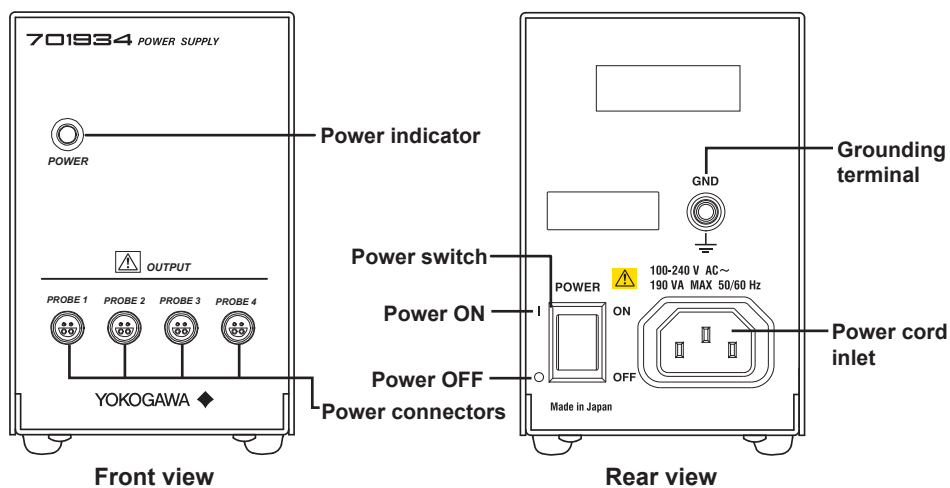
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Product Overview

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

Names of Parts



Power connector pin assignments

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.

French



ATTENTION

Avant la mise sous tension, assurez-vous que la tension de l'alimentation utilisée corresponde à la tension indiquée sur le panneau arrière de l'appareil.

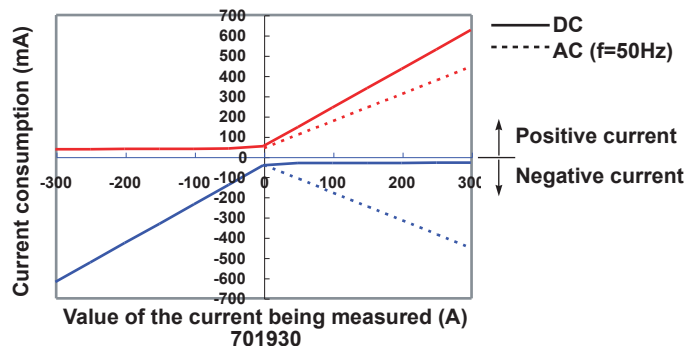
- 1 Turn the power switch OFF, and then connect the power cord.
- 2 Connect the power plug of the DL series probe you are using to a power connector on the instrument.
- 3 Turn ON the power switch, and confirm that the power indicator on the front panel illuminates.

Measurement Procedure

Refer to the user's manual on how to use the various probes.

Note

- When using current probes, you may not be able to use a second current probe simultaneously with the 701934 depending on the value of the current being measured.
- The current consumption of the probe is dependent upon the value of the current being measured. Do not let the total current consumption of the probe exceed the rated output current of the 701934. See the examples below.



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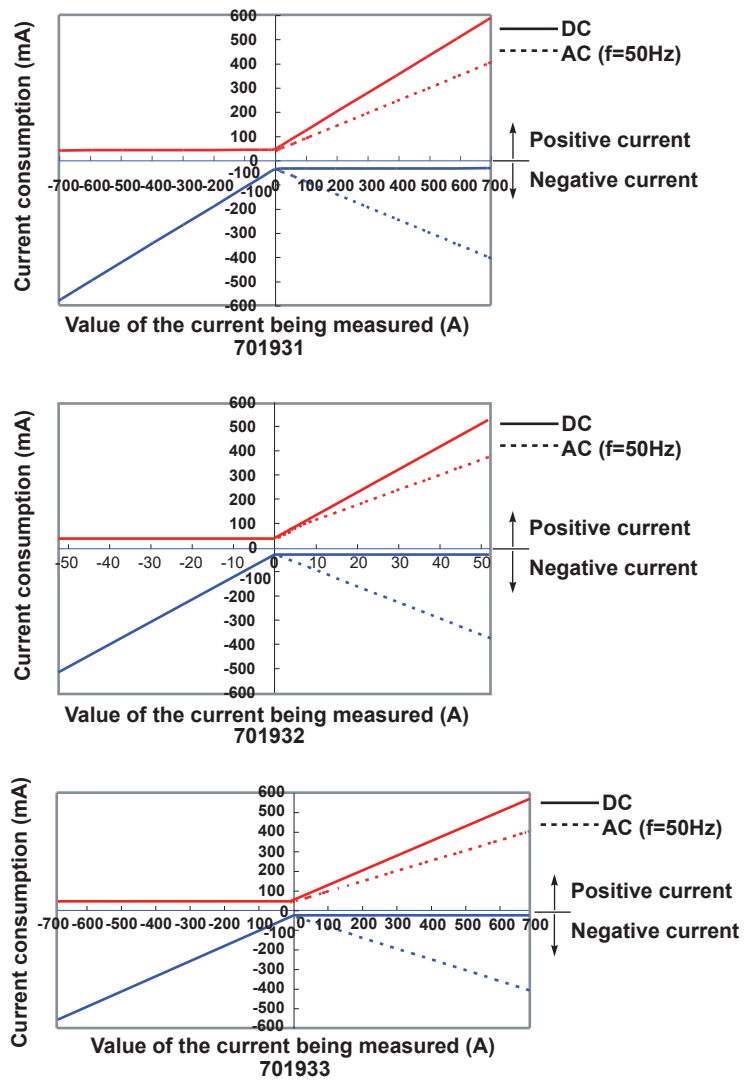


Figure 1 Current consumption* vs. current to be measured (typical)
 *Total of positive and negative power

Specifications

Product Specifications

Compatible Probes	700939 FET Probe, 701930 Current Probe, 701931 Current Probe, 701932 Current Probe, 701933 Current Probe
No. of Power Connectors	4
Output Voltage	$\pm(12 \pm 0.5)$ V
Operating Temperature/Humidity	0 to 40°C, 80% RH or less (no condensation may be present)
Storage Temperature/Humidity	-10 to 50°C, 80% RH or less (no condensation may be present)
Location of use	Indoor use
Altitude	Up to 2000 m
Rated Output Current	± 2.5 A (for all outputs in total)
Rated Supply Voltage	100 to 240 VAC (actual power supply voltage may fluctuate within $\pm 10\%$ of the rating)
Ripple Voltage	50 mVp-p
Rated Power Supply Frequency	50/60 Hz
Rated Power	190 VA Max (at the rated output current)
External Dimensions	80 (W) × 119 (H) × 200 (D) mm
Weight	Approx. 1.2 kg
Standard Accessories	Power cord (If the suffix code is -Y, a power cord is not included.), user's manual

Compliant Standards

Safety standards	EN61010-1 Overvoltage category II ¹ Pollution degree 2 ²
EMC standards	EN61326-1 EN61000-3-2 EN61000-3-3 EN55011 Class B, Group 1 EMC standards of Australia and New Zealand EN55011 Class B, Group 1
Environmental standards ³	EU RoHS Directive compliant

- 1 The overvoltage category is a value used to define the transient overvoltage condition and includes the rated impulse withstand voltage. II applies to electrical equipment that is powered through a fixed installation, such as a switchboard.
- 2 Pollution Degree applies to the degree of adhesion of a solid, liquid, or gas that deteriorates withstand voltage or surface resistivity. Pollution degree 2 applies to normal indoor atmospheres (with only non-conductive pollution).
- 3 For conformity to environmental regulations and/or standards other than EU, contact your nearest YOKOGAWA office (PIM113-01Z2).

If servicing is required

Contact your nearest Yokogawa dealer or representative if servicing is required, or if the instrument fails to operate normally.

IM 701934-01E

Aufgrund laufender Weiterentwicklungen sind Änderungen der Spezifikationen vorbehalten. Alle Angaben vorbehaltlich Satz- und Druckfehler.

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