

RIGOL

用户手册

RP1000D 系列高压差分探头

2021 年 04 月

RIGOL TECHNOLOGIES CO., LTD.

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保持适当的通风。

通风不良会引起仪器温度升高，进而引起仪器损坏。使用时应保持良好的通风，定期检查通风口和风扇。

请勿在潮湿环境下操作。

为避免仪器内部电路短路或发生电击的危险，请勿在潮湿环境下操作

仪器。

请勿在易燃易爆的环境下操作。

为避免仪器损坏或人身伤害，请勿在易燃易爆的环境下操作仪器。

请保持产品表面的清洁和干燥。

为避免灰尘或空气中的水分影响仪器性能，请保持产品表面的清洁和干燥。

防静电保护。

静电会造成仪器损坏，应尽可能在防静电区进行测试。在连接电缆到仪器前，应将其内外导体短暂接地以释放静电。

安全术语和符号

本手册中的安全术语：



警告

警告性声明指出可能会造成人身伤害或危及生命安全的情况或操作。



注意

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WARNING 表示您如果不进行此操作，可能会对您造成潜在的危害。

CAUTION 表示您如果不进行此操作，可能会对本产品或连接到本产品的其他设备造成损坏。

产品上的安全符号：



双层绝缘
符号



高电压



安全警告



保护性
接地端



壳体
接地端



测量
接地端

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RP1000D 系列高压差分探头简介

RP1000D 系列高压差分探头可以将输入的高差分电压转换为低电压，并将波形显示在示波器上。其使用频率可分别高达 25MHz（RP1025D）、50MHz（RP1050D）、100MHz（RP1100D），非常适合大电力测试和研发使用。

RP1000D 系列高压差分探头适用于通用示波器，其标识的衰减比是在示波器的输入阻抗为 $1\text{M}\Omega$ 时的衰减量，当示波器的输入阻抗设置为 50Ω 时，衰减量变为输入阻抗为 $1\text{M}\Omega$ 时的 2 倍。



图 1 RP1025D 高压差分探头



图 2 RP1050D 高压差分探头



图 3 RP1100D 高压差分探头

基本操作

1. 将附件提供的红色安规 IC 夹与红色双香蕉插头硅胶线的一端连接，将黑色安规 IC 夹与黑色双香蕉插头硅胶线的一端连接。然后将红色双香蕉插头硅胶线与高压探头的红色 (+) 输入端口连接，将黑色双香蕉插头硅胶线与高压探头的黑色 (-) 输入端口连接。

注意：

- a) 安规 IC 夹可替换为高压专用 IC 夹、安规鳄鱼夹或安规接触探头棒。
 - b) 双香蕉插头硅胶线可替换为高压专用双香蕉插头硅胶线。
2. 将双端 BNC 同轴线缆的一端与高压差分探头的 BNC 接口连接，另一端连接至示波器输入端。
 3. 打开示波器上的通道开关，调节高压探头和示波器使二者的衰减比匹配。若示波器的衰减比与高压探头不匹配，则实际的垂直档位等于高压探头的衰减比除以示波器的衰减比再乘以示波器上的垂直档位。

例如：示波器的衰减比设置为 1X，高压探头的衰减比设置为 X200，示波器上的垂直档位为 0.5V/div，则实际的垂直档位为 $200 \times 0.5V/div = 100V/div$ 。当示波器的输入阻抗是 50Ω 时，实际垂直档位为 $2 \times 200 \times 0.5V/div = 200V/div$ 。

注意：当示波器的衰减比与高压探头的衰减比设置一致时，示波器上显示的垂直档位即为实际档位。

清洁与保养

清洁:

本产品不需要任何特定的清洁，如有需要，请使用轻软干净的布，沾上微量的清洁液轻轻地在产品外擦拭。

保养:

本产品如果超过 60 天以上不使用，请将本产品放在防潮箱中存储。

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规格

技术参数

RP1025D:

带宽	DC - 25MHz (-3dB)
衰减比	X20、X50、X200
精度	±2%
输入电压范围（DC + AC 峰峰值）	衰减比为 X20: ≤ 140Vpp, 约 50Vrms 或 DC 衰减比为 X50: ≤ 350Vpp, 约 125Vrms 或 DC 衰减比为 X200: ≤ 1400Vpp, 约 500Vrms 或 DC
最大输入电压	最大差分电压: 1400V (DC+AC 峰峰值) 或 500Vrms 输入端对地电压: 600Vrms
输入阻抗	差分: 4MΩ/1.2pF 单端对地: 2MΩ/2.3pF
输出电压	≤ ±6.5V
输出阻抗	50Ω
上升时间	14ns
共模抑制	60Hz: > 50dB 100Hz: > 50dB 1MHz: > 50dB
电源	指定外接 9V DC 电源（必须为 RIGOL 承认的指定品）
耗电	<300 mA

RP1050D:

带宽	DC - 50MHz (-3dB)
衰减比	X100、X200、X500、X1000
精度	±2%
输入电压范围 (DC + AC 峰峰值)	衰减比为 X100: ≤ 700Vpp, 约 230Vrms 或 DC 衰减比为 X200: ≤ 1400Vpp, 约 460Vrms 或 DC 衰减比为 X500: ≤ 3500Vpp, 约 1140Vrms 或 DC 衰减比为 X1000: ≤ 7000Vpp, 约 2300Vrms 或 DC
最大输入电压	最大差分电压: 7000V (DC+AC 峰峰值) 或 2300Vrms 输入端对地电压: 6500Vrms
输入阻抗	差分: 16MΩ/1pF 单端对地: 8MΩ/2pF
输出电压	≤ ±7.0V
输出阻抗	50Ω
上升时间	7ns
共模抑制	60Hz: > 50dB 100Hz: > 50dB 1MHz: > 50dB
电源	指定外接 9V DC 电源 (必须为 RIGOL 承认的指定品)
耗电	<300 mA

RP1100D:

带宽	DC - 100MHz (-3dB)
衰减比	X100、X200、X500、X1000
精度	±2%
输入电压范围 (DC + AC 峰峰值)	衰减比为 X100: ≤ 700Vpp, 约 230Vrms 或 DC 衰减比为 X200: ≤ 1400Vpp, 约 460Vrms 或 DC 衰减比为 X500: ≤ 3500Vpp, 约 1140Vrms 或 DC 衰减比为 X1000: ≤ 7000Vpp, 约 2300Vrms 或 DC
最大输入电压	最大差分电压: 7000V (DC+AC 峰峰值) 或 2300Vrms 输入端对地电压: 6500Vrms
输入阻抗	差分: 16MΩ/1.2pF 单端对地: 8MΩ/2.3pF
输出电压	≤ ±8.0V
输出阻抗	50Ω
上升时间	3.5ns
共模抑制	60Hz: > 50dB 100Hz: > 50dB 1MHz: > 50dB
电源	指定外接 9V DC 电源 (必须为 RIGOL 承认的指定品)
耗电	<300 mA

操作环境

	一般状态	操作状态	存储状态
温度	+20℃至+30℃	0℃至+50℃	-30℃至+70℃
湿度	≤ 70%RH	10%至 85%RH	10%至 90%RH

一般技术规格

探头尺寸	RP1025D: 214mm x 60mm x 35mm
	RP1050D: 240mm x 85mm x 36mm
	RP1100D: 240mm x 85mm x 36mm
重量	RP1025D: 280g
	RP1050D: 280g
	RP1100D: 280g
安全性	IEC 1010-1, CAT III, 污染等级 2
电磁兼容性	符合 EN50081-1 及 50082-1 标准
最大对地电压	RP1025D: 600Vrms
	RP1050D: 6500Vrms
	RP1100D: 6500Vrms
使用环境	室内环境
绝缘类别	双重绝缘

附件

RP1025D:

	附件	说明	数量
1.	用户手册	中英文	1
2.	符合所在国家标准的 AC 电源适配器	——	1
3.	双端 BNC 同轴电缆线	50Ω 阻抗 RG58C UL 长度 100cm	1
4.	双香蕉插头硅胶线	UL 6KV 18AWG 长度 60cm	红色: 1; 黑色: 1
5.	安规 IC 夹	UL 1000V CAT III	红色: 1; 黑色: 1
6.	安规鳄鱼夹	UL 1000V CAT II, 10A	红色: 1; 黑色: 1

RP1050D:

	附件	说明	数量
1.	用户手册	中英文	1
2.	符合所在国家标准的 AC 电源适配器	——	1
3.	双端 BNC 同轴电缆线	50Ω 阻抗 RG58C UL 长度 100cm	1
4.	高压专用双香蕉插头 硅胶线	UL 20KV 16AWG 长度 60cm	红色: 1; 黑色: 1
5.	高压专用 IC 夹	最大 6500V(DC+ACp-p)	红色: 1; 黑色: 1
6.	安规鳄鱼夹	UL 1000V CAT II, 10A	红色: 1; 黑色: 1

RP1100D:

	附件	说明	数量
1.	用户手册	中英文	1
2.	符合所在国家标准的 AC 电源适配器	——	1
3.	双端 BNC 同轴电缆线	50Ω 阻抗 RG58C UL 长度 100cm	1
4.	高压专用双香蕉插头 硅胶线	UL 20KV 16AWG 长度 60cm	红色: 1; 黑色: 1
5.	高压专用 IC 夹	最大 6500V(DC+ACp-p)	红色: 1; 黑色: 1
6.	安规鳄鱼夹	UL 1000V CAT II, 10A	红色: 1; 黑色: 1
7.	安规接触探头棒	UL 1000V, CAT III	红色: 1; 黑色: 1

RIGOL

User Guide

RP1000D Series High Voltage Differential Probe

Apr. 2021

RIGOL TECHNOLOGIES. CO., LTD.

Guaranty and Declaration

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RIGOL guarantees that this product conforms to the national and industrial standards in China as well as the ISO9001:2015 standard and the ISO14001:2015 standard. Other international standard conformance certifications are in progress.

Contact Us

If you have any problem or requirement when using our products or this manual, please contact **RIGOL**.

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Website: www.rigol.com

General Safety Summary

Please review the following safety precautions carefully before putting the instrument into operation so as to avoid any personal injury or damage to the instrument and any product connected to it. To prevent potential hazards, please follow the instructions specified in this manual to use the instrument properly.

Ground the Instrument.

The instrument is grounded through the Protective Earth lead of the power cord. To avoid electric shock, connect the earth terminal of the power cord to the Protective Earth terminal before connecting any input or output terminals.

Observe All Terminal Ratings.

To avoid fire or shock hazard, observe all ratings and markers on the instrument and check your manual for more information about ratings before connecting the instrument.

Do Not Operate Without Covers.

Do not operate the instrument with covers or panels removed.

Avoid Circuit or Wire Exposure.

Do not touch exposed junctions and components when the unit is powered on.

Do Not Operate with Suspected Failures.

If you suspect that any damage may occur to the instrument, have it inspected by **RIGOL** authorized personnel before further operations. Any maintenance, adjustment or replacement especially

to circuits or accessories must be performed by **RIGOL** authorized personnel.

Provide Adequate Ventilation.

Inadequate ventilation may cause increasing of temperature or damages to the device. So please keep well ventilated and inspect the intake and fan regularly.

Do Not Operate in Wet Conditions.

To avoid short circuit inside the instrument or electric shock, never operate the instrument in a humid environment.

Do Not Operate in an Explosive Atmosphere.

To avoid personal injuries or damage to the instrument, never operate the instrument in an explosive atmosphere.

Keep Product Surfaces Clean and Dry.

To avoid dust or moisture from affecting the performance of the instrument, keep the surfaces of the instrument clean and dry.

Prevent Electrostatic Impact.

Operate the instrument in an electrostatic discharge protective environment to avoid damage induced by static discharges. Always ground both the internal and external conductors of cables to release static before making connections.

Safety Terms and Symbols

Safety Notices in this Manual:



WARNING

Indicates a potentially hazardous situation or practice which, if not avoided, will result in serious injury or death.



CAUTION

Indicates a potentially hazardous situation or practice which, if not avoided, could result in damage to the product or loss of important data.

Safety Terms on the Product:

DANGER It calls attention to an operation, if not correctly performed, could result in injury or hazard immediately.

WARNING It calls attention to an operation, if not correctly performed, could result in potential injury or hazard.

CAUTION It calls attention to an operation, if not correctly performed, could result in damage to the product or other devices connected to the product.

Safety Symbols on the Product:



**Double
Insulation**



**Hazardous
Voltage**



**Safety
Warning**



**Protective
Earth
Terminal**



**Chassis
Ground**



**Test
Ground**

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RP1000D Overview

RP1000D series high voltage differential probe can convert high differential input voltage to low voltage and display the waveforms on the oscilloscope. Its working frequency is up to 25MHz (RP1025D), 50MHz (RP1050D) and 100MHz (RP1100D) and it is rather suitable for large electricity test and R&D.

RP1000D series high voltage differential probe is applicable to general purpose oscilloscope and the labeled attenuation ratios are those when the input impedance of the oscilloscope is $1M\Omega$. The attenuation ratios will double when the input impedance of the oscilloscope is 50Ω .



Figure 1 RP1025D High Voltage Differential Probe



Figure 2 RP1050D High Voltage Differential Probe



Figure 3 RP1100D High Voltage Differential Probe

Basic Operations

1. Connect the red safety IC clip with one end of the red dual-banana plug silicon cable and the black safety IC clip with one end of the black dual-banana plug silicon cable provided in the accessories. Then, connect the red dual-banana plug silicon cable with the red (+) input terminal of the high voltage probe and the black dual-banana plug silicon cable with the black (-) input terminal of the high voltage probe.

Note:

- a) The safety IC clip can be replaced by the high voltage dedicated IC clip, safety alligator clip or safety contact probe prod;
 - b) The dual-banana plug silicon cable can be replaced by high voltage dedicated dual-banana plug silicon cable.
2. Connect one end of the dual-BNC coaxial cable to the BNC interface of the high voltage differential probe and the other end to the input terminal of the oscilloscope.
 3. Turn on the channel switch on the oscilloscope and adjust the attenuation of the high voltage probe to make it match that of the oscilloscope. If the attenuation ratio of the oscilloscope does not match that of the high voltage probe, the actual vertical scale equals the attenuation ratio of the high voltage probe divided by the attenuation ratio of the oscilloscope and then times the vertical scale of the oscilloscope.

For example, when the attenuation ratio of the oscilloscope is

set to 1X, the attenuation ratio of the high voltage probe is set to X200 and the vertical scale of the oscilloscope is 0.5V/div, the actual vertical scale is $200 \times 0.5\text{V/div} = 100\text{V/div}$. When the input impedance of the oscilloscope is 50Ω , the actual vertical scale is $2 \times 200 \times 0.5\text{V/div} = 200\text{V/div}$.

Note: When the attenuation ratio of the oscilloscope matches the attenuation ratio of the high voltage probe, the vertical scale displayed on the oscilloscope is the actual scale.

Cleaning and General Care

Cleaning:

This product has no particular requirement for cleaning. To clean the probe, please wipe the probe surface using soft and clean cloth dampened with detergent.

General Care:

Please store this product in anti-humidity case if the product will not be used for more than 60 days.

Warranty

RIGOL TECHNOLOGIES CO., LTD. (hereinafter referred to as **RIGOL**) warrants that the product will be free from defects in materials and workmanship within the warranty period. If a product proves defective within the warranty period, **RIGOL** guarantees free replacement or repair for the defective product.

To get repair service, please contact with your nearest **RIGOL** sales or service office.

There is no other warranty, expressed or implied, except such as is expressly set forth herein or other applicable warranty card. There is no implied warranty of merchantability or fitness for a particular purpose. Under no circumstances shall **RIGOL** be liable for any consequential, indirect, ensuing, or special damages for any breach of warranty in any case.

Specifications

Technical Specifications

RP1025D:

Bandwidth	DC - 25MHz (-3dB)
Attenuation Ratio	X20, X50, X200
Accuracy	±2%
Input Voltage Range (DC + AC peak-peak value)	X20 attenuation ratio: ≤ 140Vpp, about 50Vrms or DC X50 attenuation ratio: ≤ 350Vpp, about 125Vrms or DC X200 attenuation ratio: ≤ 1400Vpp, about 500Vrms or DC
Maximum Input Voltage	Maximum differential voltage: 1400V (DC+AC peak-peak value) or 500Vrms Voltage to ground at the input terminal: 600Vrms
Input Impedance	Differential: 4MΩ/1.2pF Single-ended and to ground: 2MΩ/2.3pF
Output Voltage	≤ ±6.5V
Output Impedance	50Ω
Rise Time	14ns
Common-mode Rejection	60Hz: > 50dB 100Hz: > 50dB 1MHz: > 50dB
Power Supply	Specified external 9V DC power supply (must be specified products acknowledged by RIGOL)
Power Consumption	<300 mA

RP1050D:

Bandwidth	DC - 50MHz (-3dB)
Attenuation Ratio	X100, X200, X500, X1000
Accuracy	±2%
Input Voltage Range (DC + AC peak-peak value)	X100 attenuation ratio: ≤ 700Vpp, about 230Vrms or DC X200 attenuation ratio: ≤ 1400Vpp, about 460Vrms or DC X500 attenuation ratio: ≤ 3500Vpp, about 1140Vrms or DC X1000 attenuation ratio: ≤ 7000Vpp, 2300Vrms or DC
Maximum Input Voltage	Maximum differential voltage: 7000V (DC+AC peak-peak value) or 2300Vrms Voltage to ground at the input terminal: 6500Vrms
Input Impedance	Differential: 16MΩ/1pF Single-ended and to ground: 8MΩ/2pF
Output Voltage	≤ ±7.0V
Output Impedance	50Ω
Rise Time	7ns
Common-mode Rejection	60Hz: > 50dB 100Hz: > 50dB 1MHz: > 50dB
Power Supply	Specified external 9V DC power supply (must be specified products acknowledged by RIGOL)
Power Consumption	<300 mA

RP1100D:

Bandwidth	DC - 100MHz (-3dB)
Attenuation Ratio	X100, X200, X500, X1000
Accuracy	±2%
Input Voltage Range (DC + AC peak-peak value)	X100 attenuation ratio: ≤ 700Vpp, about 230Vrms or DC X200 attenuation ratio: ≤ 1400Vpp, about 460Vrms or DC X500 attenuation ratio: ≤ 3500Vpp, about 1140Vrms or DC X1000 attenuation ratio: ≤ 7000Vpp, about 2300Vrms or DC
Maximum Input Voltage	Maximum differential voltage: 7000V (DC+AC peak-peak value) or 2300Vrms Voltage to ground at the input terminal: 6500Vrms
Input Impedance	Differential: 16MΩ/1.2pF Single-ended and to ground: 8MΩ/2.3pF
Output Voltage	≤ ±8.0V
Output Impedance	50Ω
Rise Time	3.5ns
Common-mode Rejection	60Hz: > 50dB 100Hz: > 50dB 1MHz: > 50dB
Power Supply	Specified external 9V DC power supply (must be specified products acknowledged by RIGOL)
Power Consumption	<300 mA

Operation Environment

	General	Operation	Storage
Temperature	+20°C to +30°C	0°C to +50°C	-30°C to +70°C
Humidity	≤ 70%RH	10% to 85%RH	10% to 90%RH

General Specifications

Probe Dimensions	RP1025D: about 214mm x 60mm x 35mm
	RP1050D: about 240mm x 85mm x 36mm
	RP1100D: about 240mm x 85mm x 36mm
Weight	RP1025D: 280g
	RP1050D: 280g
	RP1100D: 280g
Safety	IEC 1010-1, CAT III, pollution degree 2
Electromagnetic Compatibility	Conform to EN50081-1 and 50082-1 standards
Maximum Voltage to Ground	RP1025D: 600Vrms
	RP1050D: 6500Vrms
	RP1100D: 6500Vrms
Using Environment	Indoor environment
Insulation Category	Double insulation

Accessories

RP1025D:

	Accessories	Explanation	Quantity
1.	User Guide	Chinese & English	1
2.	AC power adaptor conforming to the standard of the destination country	--	1
3.	Dual-BNC coaxial cable	50Ω impedance RG58C UL 100cm length	1
4.	Dual-banana plug silicon cable	UL 6KV 18AWG 60cm length	Red: 1; Black: 1
5.	Safety IC clip	UL 1000V CAT III	Red: 1; Black: 1
6.	Safety alligator clip	UL 1000V CAT II, 10A	Red: 1; Black: 1

RP1050D:

	Accessories	Explanation	Quantity
1.	User Guide	Chinese & English	1
2.	AC power adaptor conforming to the standard of the destination country	--	1
3.	Dual-BNC coaxial cable	50Ω impedance RG58C UL 100cm length	1
4.	High voltage dedicated dual-banana plug silicon cable	UL 20KV 16AWG 60cm length	Red: 1; Black: 1
5.	High voltage dedicated IC clip	maximum 6500V (DC+AC p-p)	Red: 1; Black: 1
6.	Safety alligator clip	UL 1000V CAT II, 10A	Red: 1; Black: 1

RP1100D:

	Accessories	Explanation	Quantity
1.	User Guide	Chinese & English	1
2.	AC power adaptor conforming to the standard of the destination country	--	1
3.	Dual-BNC coaxial cable	50Ω impedance RG58C UL 100cm length	1
4.	High voltage dedicated dual-banana plug silicon cable	UL 20KV 16AWG 60cm length	Red: 1; Black: 1
5.	High voltage dedicated IC clip	maximum 6500V (DC+AC p-p)	Red: 1; Black: 1
6.	Safety alligator clip	UL 1000V CAT II, 10A	Red: 1; Black: 1
7.	Safety contact probe prod	UL 1000V, CAT III	Red: 1; Black: 1