

Warning

Do not attempt to take measurements from sources when the chassis or return lead is not ground.

This ground connection is critical to the safety operation of the probe. Failure to make this connection may result in personal injuries or damages to the probe or voltmeter. This connection must be made before the probe tip comes into contact with the high voltage and must not be removed until after the probe tip has been removed.

Do not connect the ground clip to the high voltage source or the probe tip to the ground for any reason.

BEFORE turning the high voltage on, make sure that no part of your body is in contact with the device.

Remembering that the voltage being measured is 1000 times greater than the voltmeter reading.

When the measuring voltage are DC 8 to 10 KV, or AC rms 5 to 7 KV or AC peak 15 to 20 KV, do not exceed 60 sec on each measurement. You can break off for 5 minutes at least during the measurement. Otherwise overheating will affect the measurement accuracy even damage the probe. Disconnect the probe tip from the high voltage source **BEFORE removing the ground clip lead.**

Cleaning

Clean only the exterior probe body and cables. Use a soft cotton cloth lightly moistened with a mild solution of detergent and water. Do not submerge any portion of the probe at any time.

Dry the probe thoroughly before any voltage measurement.

Make sure the probe is free from any solvents or solvent fumes as these can case deterioration to the probe body and cables.

性能指标 (Specifications)

最大工作电压	Max. Working Voltage	DC: 0 ~ 10 KV DC AC: pulse \leq 20 KV peak to peak AC: sine wave \leq 7 KVrms	
信噪比	Signal/Noise	DC \geq 60 dB (1 KHz), \geq 50 dB (1 MHz)	
带宽	Bandwidth	DC ~40 MHz (-3 dB)	
衰减比例	Division Ratio	1:1000	
上升时间	Rise Time	\leq 8.8 ns	
输入阻抗	Input Impedance	100 M Ω \pm 5%	
输入电容	Input Capacitance	3.0 pF \pm 0.5 pF	
补偿范围	Compensation Range	5 pF ~ 50 pF	
线长度	Cable Length	2.0 meter (\pm 0.2 M)	
温度系数	Temperature Coefficient	\leq 200 PPM / $^{\circ}$ C	
精确度	Accuracy	DC	\pm 3% (DC to 10 KV)
		AC	\pm 3% (1 KHz/1 KV) -3dB 40 MHz
安全认证	Safety App.	CE	
操作温度	Operating Temperature	0 ~ 50 $^{\circ}$ C	
存储温度	Storage Temperature	-20 ~ +70 $^{\circ}$ C	
重量/尺寸	Weight / Dimension	250 g / Φ 75 x 340 mm L	



当测量电压为下述情况时，每次测量时间不得超过60秒。期间需断开并等待散热至少5分钟。

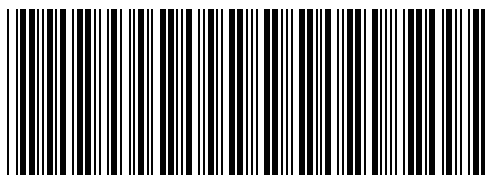
直流：8 ~ 10 KV
交流 有效值：5 ~ 7 KV
交流 峰峰值：15 ~ 20 KV

When the measuring voltage is under the followings. Each measurement should be within 60 sec. You can break off for 5 minutes at least during the measurement.

DC: 8 ~ 10 KV
AC RMS: 5 ~ 7 KV
AC PEAK: 15 ~ 20 KV

北京普源精电科技有限公司 RIGOL Technologies, Inc.

邮箱E-mail: service@rigol.com 网址Website: www.rigol.com



S M I 0 2 0 0 0 2 5 7 9

RIGOL[®]

用户手册 User's Guide



© 2013 RIGOL Technologies, Inc. All Rights Reserved.

RP1010H 高压示波器探头

High Voltage Probe for Oscilloscope