

## 20KV High Withstand Voltage Testers



## 【特點】

- 7473 交流輸出 20KV / 10mA & 7470 10KV / 20mA
- 7474 直流輸出 20KV / 5mA & 7472 12KV / 10mA
- 專利的智慧型防高壓觸電裝置 Smart GFI；確保操作使用者的安全
- 專利的 RAMP-HI 與 CHARGE-LOW 提高直流耐壓測試效益
- 全範圍輸出穩壓率可達 1%
- 50 組程式記憶；記憶組間可進行連結測試
- 內建遠端控制界面；簡單的控制 TEST / RESET 及三組記憶 M1 / M2 / M3 輸出
- 鍵盤鎖定功能
- 可選購界面 GPIB、USB & RS232、Printer Card 作控制

## 【Features】

- 7473 AC Withstanding Output Voltage 20KV and Maximum Current 10mA
- 7470 AC Withstanding Output Voltage 10KV and Maximum Current 20mA
- 7474 DC Withstanding Output Voltage 20KV and Maximum Current 5mA
- 7472 DC Withstanding Output Voltage 12KV and Maximum Current 10mA
- Enhanced 20 x 2 LCD Display
- Exclusive Smart GFI Circuit (Pat.#169000)
- Line and load regulation maintains the output voltage within 1% of setting
- Storage up to 50 memories and each memory to perform any of tests in any sequence
- Built-in PLC Remote interface
- Front Panel Lockout
- Optional GPIB, USB & RS232, Printer Card interface control

## 20KV High Withstand Voltage Testers

### [Specification]

MODEL	7470	7472	7473	7474
<b>AC WITHSTAND VOLTAGE (7470 &amp; 7473)</b>				
	<b>Range</b>	<b>Resolution</b>	<b>Accuracy</b>	
Output Voltage, ACV (for 7473)	0 - 20000	10	± (1.5% of setting + 20V)	
Output Voltage, ACV (for 7470)	0 - 10000	10	± (1.5% of setting + 10V)	
Output Frequency	50Hz / 60Hz ± 0.1%, User selectable			
Output Waveform	Sine Wave, THD. < 3% at 2K - 20KV (Resistive Load), Crest Factor = 1.3 - 1.5			
Output Regulation	± (1% of output + 10V), From no load to full load			
<b>SETTINGS</b>				
Hi / Lo-Limit AC Current, mA (for 7473)	0 - 9.999	0.001	± (2% of setting + 2 counts)	
Hi / Lo-Limit AC Current, mA (for 7470)	0 - 9.999 / 10.00 - 20.00	0.001 / 0.01	± (2% of setting + 2 counts)	
Ramp Up Time, second	0.3 - 999.9	0.1	± (0.1% of setting + 0.05s)	
Ramp Down Time, second	0.1 - 999.9	0.1		
Dwell Time, second	0, 0.3 - 999.9 sec (0 = continuous)	0.1		
	0, 0.1 - 999.9 min (0 = continuous)	0.1		
	0, 0.1 - 999.9 hr (0 = continuous)	0.1		
Cycle Test	0 - 9999 Times, (0 = continuous)			
Arc Detection	For 7470 : Range 1 - 9 at Output Voltage < 7.00KV, Range 1 - 8 at Output Voltage ≥ 7.00KV ; For 7473 : Range 1 - 9 at Output Voltage < 15.00KV, Range 1 - 7 at Output Voltage ≥ 15.00KV			
AC Current Offset, mA	0 - 2.000, auto / manual set (OPTION)			
<b>MEASUREMENT</b>				
Output Voltage, KV (for 7470)	0 - 10.00	0.01	± (2% of reading + 2 counts)	
Output Voltage, KV (for 7473)	0 - 20.00	0.01		
AC Current Range, mA	0 - 3.500	0.001	± (2% of reading + 3 counts)	
	3.00 - 10.00 (for 7473)	0.01		
	3.00 - 20.00 (for 7470)	0.01		
<b>DC WITHSTAND VOLTAGE (7472 &amp; 7474)</b>				
Output Voltage, KV (for 7474)	0 - 20000	10	± (1.5% of setting + 20V)	
Output Voltage, KV (for 7472)	0 - 12000	10	± (1.5% of setting + 10V)	
Output Ripple	< 5%, 20KV / 5000µA for 7474, 12KV / 9999µA at Resistive load for 7472			
<b>SETTINGS</b>				
Hi / Lo-Limit DC Current, µA (for 7474)	0.0 - 999.9 / 1000 - 5000	0.1 / 1	± (2% of setting + 2 counts)	
Hi / Lo-Limit DC Current, µA (for 7472)	0.0 - 999.9 / 1000 - 9999	0.1 / 1	± (2% of setting + 2 counts)	
Ramp Up Time, second	0.4 - 999.9	0.1	± (0.1% of setting+ 0.05s)	
Ramp Down Time, second	0, 1.0 - 999.9	0.1		
Dwell Time, second	0, 0.4 - 999.9 sec (0 = continuous)	0.1		
	0, 0.1 - 999.9 min (0 = continuous)	0.1		
	0, 0.1 - 999.9 hr (0 = continuous)	0.1		
Cycle Test	0 - 9999 Times, (0 = continuous)			
Arc Detection	The range is from 1 - 9 (9 is the most sensitive)			

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MODEL	7470	7472	7473	7474
<b>SETTINGS</b>				
DC Current Offset, $\mu\text{A}$	0.0 - 200.0, auto / manual set (Option)			
Ramp-High Current	ON / OFF, User selectable			
Charge-Low Current, $\mu\text{A}$	0.0 - 350.0, auto / manual set			
Discharge Time	$\leq 200\text{ms}$			
Maximum Capacitive Load	1.5 $\mu\text{F}$ < 2KV, 0.15 $\mu\text{F}$ < 8KV, 0.12 $\mu\text{F}$ < 14KV, 0.08 $\mu\text{F}$ < 20KV 0.28 $\mu\text{F}$ < 4KV, 0.15 $\mu\text{F}$ < 10KV, 0.1 $\mu\text{F}$ < 16KV 0.18 $\mu\text{F}$ < 6KV, 0.12 $\mu\text{F}$ < 12KV, 0.08 $\mu\text{F}$ < 18KV			
<b>MEASUREMENT</b>				
DC Voltage, KV (for 7474)	0 - 20.00	0.01	$\pm (1.5\%$ of reading + 2 counts)	
DC Voltage, KV (for 7472)	0 - 10.00	0.01	$\pm (1.5\%$ of reading + 2 counts)	
DC Current Range, $\mu\text{A}$	0 - 350.0	0.1	$\pm (2\%$ of reading + 3 counts)	
	300 - 3500	1		
	3000 - 5000 (for 7474)	10		
	3000 - 9999 (for 7472)			
<b>GENERAL</b>				
Input Voltage AC	115 / 230VAC $\pm 15\%$ , 50 / 60Hz $\pm 5\%$ , max. current 6.3A			
PLC Remote Control	Input : Test, Reset, Memory 1, 2, 3, Interlock Output : Pass, Fail, Processing			
Safety	Smart GFI Function (< 1mA)			
Memory	50 memories			
Display	20 x 2 LCD with back light			
Key Lock	To prevent unauthorized alteration of the test parameters			
Calibration	Built-in software and external calibrated meters			
Interface	Optional USB & RS232, GPIB, Printer Card			
Alarm Volume Setting	Range : 0 - 9 ; 0 = OFF, 1 is softest volume, 9 is loudest volume			
Environment	0 - 40°C, 20 - 80%RH			
Dimension (W x H x D), mm	430 x 133 x 400			
Net Weight	24Kg	24Kg	22.5Kg	23Kg
<b>STANDARD ACCESSORIES</b>				
Power Cord (10A)	x 1			
Fuses	x 2 (Including a spare contained in the fuse holder)			
Interlock Disable Key (1505)	x 1			
Hipot Test Lead, 1.5m (1142)	-	-	x 1	x 1
Hipot Test Lead, 1.5m (1143)	x 1	x 1	-	-
Hipot Return Lead, 1.8m (1144)	x 1	x 1	x 1	x 1

\*Product specifications are subject to change without notice

**[Ordering Information]**

7470 AC 10KV Withstand Voltage Tester

7472 DC 12KV Withstand Voltage Tester

7473 AC 20KV Withstand Voltage Tester

7474 DC 20KV Withstand Voltage Tester

Opt.731 GPIB Interface Card

Opt.762 Offset Function

Opt.763 USB &amp; RS232 PC Control Card

Opt.7011 Continuous Output during step link for 7470 &amp; 7473

Opt.7012 Continuous Output during step link for 7472 &amp; 7474