

**Replacement Information**

New Model	Replacement
GPT-9804 : AC+DC+IR+GB	GPI-745A
GPT-9803 : AC+DC+IR	GPI-735A and GPI-725A
GPT-9802 : AC+DC	GPT-715A
GPT-9801 : AC	GPT-705A

After GPT-9800 series launched, the GPT/GPI-700A series is going to be phase-out. The above table shows the replacement between models. For difference between this two series, please refer to the comparison below.

Comparison of GPT-9800 vs. GPT/GPI-700A					
		GPT-9800		GPT/GPI-700A	
<b>AC</b> <b>Withstanding</b>	Output-Voltage Range	0.100kV~ 5.000kV ac		0.100kV~ 5.000kV ac	
	Output-Voltage Resolution	2V/step		5V/step	
	Output-Voltage Accuracy	± (1% of setting + 5V) [no load]		-----	
	Maximum Rated Load	200 VA (5kV/40mA)		200 VA (5kV/40mA)	
	Maximum Rated Current	40mA (0.5kV < V ≤ 5kV) 10mA (0.1kV ≤ V ≤ 0.5kV)		40mA (0.5kV < V ≤ 5kV) 10mA (0.1kV ≤ V ≤ 0.5kV)	
	Output-Voltage Waveform	Sine wave		Sine wave	
	Output-Voltage Frequency	50 Hz / 60 Hz selectable		50 Hz / 60 Hz selectable	
	Voltage Regulation	± (1% of reading + 5V) [full load → no load]		± (1% of reading + 5V) [full load → no load]	
	Voltmeter Accuracy	± (1% of reading + 5V)		± (1% of reading + 10V)	
	Current Measurement Range	0.001mA~40.0mA		0.1mA~40.0mA	
	Current Best Resolution	0.001mA / 0.01mA / 0.1mA		0.02mA	
	Current Measurement Accuracy	±(1.5% of reading + 30uA)		±(1.0% of reading + 80uA)	
	Window Comparator Method	Yes		Yes	
	ARC Detect	Yes		Yes	
	RAMP (Ramp-Up Time)	0.1s~999.9s		0s~999.9s	
TIMER (Test Time)	OFF, 0.5s~999.9s		OFF, 0.5s~999.9s		
GND	RETURN/GUARD		RETURN (fix)		
<b>DC</b> <b>Withstanding</b>	Output-Voltage Range	0.100kV~ 6.000kV dc		0.100kV~ 6.000kV dc	
	Output-Voltage Resolution	2V/step		5V/step	
	Output-Voltage Accuracy	± (1% of setting + 5V) [no load]		-----	
	Maximum Rated Load	50W (5kV/10mA)		60W (6kV/10mA)	
	Maximum Rated Current	10mA (0.5kV < V ≤ 6kV) 2mA (0.1kV ≤ V ≤ 0.5kV)		10mA (0.5kV < V ≤ 6kV) 2mA (0.1kV ≤ V ≤ 0.5kV)	
	Voltage Regulation	± (1% of reading + 5V) [full load → no load]		± (1% of reading + 5V) [full load → no load]	
	Voltmeter Accuracy	± (1% of reading + 5V)		± (1% of reading + 10V)	
	Current Measurement Range	0.001mA~ 10.0mA		0.1mA~ 10.0mA	
	Current Best Resolution	0.001mA / 0.01mA / 0.1mA		0.01mA	
	Current Measurement Accuracy	±(1.5% of reading + 30uA)		±(1% of reading + 50uA)	
	Window Comparator Method	Yes		Yes	
	ARC Detect	Yes		Yes	
	RAMP (Ramp-Up Time)	0.1s~999.9s		0s~999.9s	
	TIMER (Test Time)	OFF, 0.5s~999.9s		OFF, 0.5s~999.9s	
	GND	RETURN/GUARD		RETURN (fix)	
<b>Insulation</b> <b>Resistance</b>	Output Voltage	50V~1000V dc		50V/100V/500V/1000V	
	Output-Voltage Resolution	50V/step		-----	
	Output-Voltage Accuracy	± (1% of setting + 5V)		-----	
	Resistance Measurement Range	1MΩ~ 9500MΩ		1MΩ~ 9500MΩ	
	Test Voltage	Measurable Range	Accuracy	Measurable Range	Accuracy
	50V ≤ V < 500V	1~50MΩ 51~2000MΩ	±(5% of reading + 1 MΩ) ±(10% of reading + 1 MΩ)	1~50MΩ 51~200MΩ 201~2000MΩ	±(5% of reading + 1 MΩ) ±(10% of reading + 1 MΩ) ±(20% of reading + 1 MΩ)
		500V ≤ V ≤ 1000V	1~500MΩ 501~9500MΩ	±(5% of reading + 1 MΩ) ±(10% of reading + 1 MΩ)	1~500MΩ 501~2000MΩ 2001~9500MΩ
	Window Comparator Method	Yes		Yes	
	RAMP (Ramp-Up Time)	0.1s~999.9s		-----	
	TIMER (Test Time)	1s~999.9s		1s~999.9s	
GND	GUARD (fix)		RETURN (fix)		

Comparison of GPT-9800 vs. GPT/GPI-700A			
	GPT-9800	GPT/GPI-700A	
<b>Ground Bond</b>	Output-Current	03.00A~30.00A ac	03.00A~42.00A dc
	Output-Current Resolution	0.01A	0.02A
	Output-Current Accuracy	3A ≤ I ≤ 8A : ±(1% of reading + 0.2A) 8A < I ≤ 30A : ±(1% of reading + 0.05A)	±(1% of reading + 0.2A)
	Test-Voltage	6Vac max (open circuit)	8Vdc max. (open circuit)
	Test-Voltage Frequency	50Hz/60Hz selectable	-----
	Resistance Measurement Range	0.1mΩ~ 650.0mΩ	0.1mΩ~ 600.0mΩ
	Resistance Measurement Resolution	0.1mΩ	0.1mΩ
	Resistance Measurement Accuracy	±(1% of reading + 2 mΩ)	±(1% of reading + 3 mΩ)
	Window Comparator Method	Yes	Yes
	TIMER (Test Time)	0.5s~999.9s	0.5s~999.9s
Test Method	Four Terminal	Four Terminal	
<b>Continuity Check</b>	Output-Current range	-----	0.1A dc
	Compliance Voltage range	-----	10%
	Resolution	-----	0.1Ω @ 1Ω
<b>Memory</b>	Single step memory	MANU : 100 blocks	COM only
	Automatic testing memory	AUTO : 100 blocks, manu per auto : 16	Groups : 10, steps per group : 16
<b>Interface</b>	RS-232C	Standard	Standard
	USB	Standard	-----
	GPIO	Option	Option
	Remote terminal (Front)	Standard	-----
	Control I/O (Rear)	Signal I/O	Remote I/O
	Scan	-----	Standard
	Rear Output	-----	GPI-745A only
<b>Display</b>		240 x 64 Ice Blue Dot matrix LCD	24 x 2 character LCD

[Note1] : GPT-9800 series does not support continuity check function.

[Note2] : The scanner box, HSB-001-1/HSB-001-2, can not work with GPT-9800 series.

Red indication for the better features