

# Intelligent Safety Analyzer



## GPT-12000 Series

### AC/DC/IR/GB Electrical Safety Analyzer

**NEW**

- 200VA AC Test Capacity
- Comply with IEC 61010-2-034
- 7" TFT LCD & Manual/Auto Mode
- True RMS Current Measurement
- Zero Crossing Turn-on Operation
- Controllable Ramp-up & Ramp-down Time
- Capacitive Load Testing Capability up to 47 $\mu$ F
- Statistics Function
- Sweep Function for DUT Characteristic Analysis
- USB Storage Available & Rear Panel Output Available
- Interface:RS-232C,USB Host/Device,Signal I/O and GPIB(Opt.)
- Universal Power Input

**7" LCD**



Model	Function	Output Capacity	AC	DC	IR	GB	Continuity	Rear Output
GPT-12001		200VA	✓				✓	✓
GPT-12002		200VA	✓	✓			✓	✓
GPT-12003		200VA	✓	✓	✓		✓	✓
GPT-12004		200VA	✓	✓	✓	✓	✓	✓

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**GWINSTEK**  
Simply Reliable

## SPECIFICATIONS

<b>AC WITHSTANDING</b>	
Output-Voltage Range	0.050kV~5.000kV
Output-Voltage Resolution	1V
Output-Voltage Accuracy	±(1% of setting + 5V) [no load]
Maximum Rated Load	200 VA (5kV/40mA)
Maximum Rated Current	40mA (0.5kV< V ≤5kV); 10mA (0.05kV ≤ V ≤0.5kV)
Output-Voltage Waveform	Sine wave
Output-Voltage Frequency	50 Hz / 60 Hz selectable
Voltage Regulation	±(1% + 5V) [maximum rated load -- no load]
Voltmeter Accuracy	±(1% of reading + 5V)
Current Measurement Range	1μA~40.00mA
Current Best Resolution	1μA / 10μA
Current Measurement Accuracy	±(1.5% of reading + 30μA)
Window Comparator Method	Yes
ARC Detect	Yes
RAMP UP (Rise Time)	0.1s~999.9s
RAMP DOWN (Fall Time)	0.0s~999.9s
TIMER (Test Time)	OFF, 0.3s~999.9s
WAIT TIME	0.0s~999.9s
GND	ON/OFF
<b>DC WITHSTANDING</b>	
Output-Voltage Range	0.050kV~6.000kV
Output-Voltage Resolution	1V
Output-Voltage Accuracy	±(1% of setting + 5V) [no load]
Maximum Rated Load	50W (5kV/10mA)
Maximum Rated Current	10mA (0.5kV< V ≤6kV); 2mA (0.05kV ≤ V ≤0.5kV)
Voltage Regulation	±(1% + 5V) [maximum rated load -- no load]
Voltmeter Accuracy	±(1% of reading + 5V)
Current Measurement Range	1μA~10.00mA
Current Best Resolution	0.1μA / 1μA / 10μA
Current Measurement Accuracy	±(1.5% of reading + 3μA) when I Reading < 1mA; ±(1.5% of reading + 30μA) when I Reading ≥1mA
Window Comparator Method	Yes
ARC Detect	Yes
RAMP UP (Rise Time)	0.1s~999.9s
RAMP DOWN (Fall Time)	0.0s~999.9s
TIMER (Test Time)	OFF, 0.3s~999.9s
WAIT TIME	0.0s~999.9s
GND	ON/OFF
<b>INSULATION RESISTANCE</b>	
Output Voltage	50V~1200V dc
Output-Voltage Resolution	50V
Output-Voltage Accuracy	±(1% of setting + 5V) [no load]
Resistance Measurement	Measurement Range / Accuracy
<b>Test Voltage</b>	<b>Display Range</b>
50V ≤ V ≤ 100V	0.1M Ω ~ 10.00G Ω
150V ≤ V ≤ 450V	0.1M Ω ~ 20.00G Ω
500V ≤ V ≤ 1200V	0.1M Ω ~ 50.00G Ω
	0.1MΩ~1MΩ : ±(5% of reading + 3 count); 1 MΩ~50MΩ : ±(5% of reading + 1 count); 51MΩ~2GΩ : ±(10% of reading + 1 count)
	0.1MΩ~1MΩ : ±(5% of reading + 3 count); 1 MΩ~500MΩ : ±(5% of reading + 1 count); 501MΩ~9.999GΩ : ±(10% of reading + 1 count); 10GΩ~50GΩ : ±(20% of reading + 1 count)
Voltage Regulation	±(1% + 5V) [maximum rated load -- no load]
Voltmeter Accuracy	±(1% of reading + 5V)
Short-Circuit Current	10mA max.
Output Impedance	2kΩ
Window Comparator Method	Yes
RAMP UP (Rise Time)	0.1s~999.9s
RAMP DOWN (Fall Time)	0.0s~999.9s
TIMER (Test Time)	0.3s~999.9s
WAIT TIME	0.0s~999.9s
GND	ON/OFF
<b>GROUND BOND</b>	
Output-Current	03.00A~32.00A ac
Output-Current Resolution	0.01A
Output-Current Accuracy	3A ≤ I ≤ 8A : ±(1% of reading + 0.2A); 8A < I ≤ 32A : ±(1% of reading + 0.05A)
Test-Voltage	8Vac max (open circuit)
Test-Voltage Frequency	50Hz/60Hz selectable
Ohmmeter Measurement Range	1mΩ~ 650mΩ
Ohmmeter Measurement Resolution	0.1mΩ
Ohmmeter Measurement Accuracy	±(1% of reading + 2 mΩ)
Window Comparator Method	Yes
TIMER (Test Time)	0.3s~999.9s
Test Method	Four Terminal
GND	ON/OFF
<b>CONTINUITY TEST</b>	
Output-Current	100mA dc (fixed)
Ohmmeter Measurement Range	0.10Ω~ 70.00Ω
Ohmmeter Measurement Resolution	0.01Ω
Ohmmeter Measurement Accuracy	±(10% of reading + 2 Ω)
Window Comparator Method	Yes
TIMER (Test Time)	0.3s~999.9s
<b>MEMORY</b>	
Single Step Memory	MANU : 100 blocks
Automatic Testing Memory	AUTO : 100 blocks, Manu per auto : 10
<b>INTERFACE</b>	
Standard (Front)	REMOTE, USB host
Standard (Rear)	Rear Output, RS-232C, USB device, Signal I/O,
Option	GPIB
<b>DISPLAY</b>	
	7" color LCD
<b>POWER SOURCE</b>	
	AC 100V~240V ± 10%, 50Hz/60Hz; Power consumption : Max. 400VA
<b>DIMENSIONS &amp; WEIGHT</b>	
	380(W) x 148(H) x 454(D) mm; Approx. 15kg

Specifications subject to change without notice. GPT-12000CD1DH

## ORDERING INFORMATION

GPT-12004	AC/DC/IR/GB Electrical Safety Analyzer
GPT-12003	AC/DC/IR Electrical Safety Analyzer
GPT-12002	AC/DC Electrical Safety Analyzer
GPT-12001	AC Electrical Safety Analyzer

## ACCESSORIES

Quick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, Remote terminal Cable GHT-119 x 1, Test lead GHT-115 x 1 for GPT-12001/12002/12003, Test lead GHT-115 x 1, GTL-215 x 1 for GPT-12004

## OPTION

Opt.1 GPIB card

## OPTIONAL ASSESSORIES

GHT-113	High Voltage Test Pistol	GRA-440	Rack Adapter Panel (19", 4U)
GHT-117	High Voltage Adapter Box		
GHT-118	High Voltage / Ground Bond Adapter Box		
GHT-205	High Voltage Test Probe		
GTL-232	RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer		
GTL-246	USB Cable, A-B type, approx. 1.2m		
GTL-248	GPIB Cable, approx. 2m		

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