

# Intelligent Safety Analyzer



## GPT-15000 Series

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

**NEW**

- 500VA AC Test Capacity (short circuit current > 200mA)
- 7" TFT LCD
- Comply with IEC 61010-2-034 Design Requirement
- Manual Test Mode/Auto Test Mode
- RMS Current Measurement
- Zero Crossing Turn-on Operation
- Controllable Ramp-up & Ramp-down Time
- Statistics & Analysis Function
- Capacitive Load Testing Capability up to 47 $\mu$ F
- Sweep Function for DUT Characteristic Analysis
- Convenience Listed AUTO Mode Easy to Read Result and Judge
- Internal Storage and USB Storage Available
- Barcode Function Available
- Setting Data Export/Import
- Rear Panel Output Available
- Standard Interface : RS-232C, USB host/device and Signal I/O
- Optional Interface : GPIB or LAN
- Universal Power Input



[www.gwinstek.com](http://www.gwinstek.com)

**GW INSTEK**

Simply Reliable

[www.valuetronics.com](http://www.valuetronics.com)

## 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	500 VA (5kV/100mA)	
Maximum Rated Current	100mA (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~100.0mA	
Current Best Resolution	1μA / 10μA / 100μA	
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	100W (5kV/20mA)	
Maximum Rated Current	20mA (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~20.00mA	
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	Test Voltage	Display Range
	50V ≤ V ≤ 100V	0.1MΩ~10.00GΩ
	150V ≤ V ≤ 450V	0.1MΩ~20.00GΩ
	500V ≤ V ≤ 1200V	0.1MΩ~50.00GΩ
	Measurement Range / Accuracy	
	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, LAN	
<b>DISPLAY</b>		
	7" color LCD	
<b>POWER SOURCE</b>		
	AC 100V~240V ± 10%, 50Hz/60Hz; Power consumption : Max. 1000VA	
<b>DIMENSIONS &amp; WEIGHT</b>		
	GPT-15001/15002/15003 : 380(W)x148(H)x492(D)mm, Approx.17kg(max.) ; GPT-15004 : 380(W)x148(H)x546(D)mm, Approx. 21kg(max.)	

Note : \* TIMER Accuracy: +/- (100ppm+20ms)

Specifications subject to change without notice.

GPT-15000CD1DH

### ORDERING INFORMATION

GPT-15004	AC/DC/IR/GB Electrical Safety Analyzer
GPT-15003	AC/DC/IR Electrical Safety Analyzer
GPT-15002	AC/DC Electrical Safety Analyzer
GPT-15001	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-15001/15002/15003, Test lead GHT-115 x 1, GTL-215 x 1 for GPT-15004

### OPTION

Opt.1	GPIB card	Opt.2	LAN card
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### OPTIONAL ASSESSORIES

GHT-117/GHT-117(EU)	High Voltage Adapter Box
GHT-118/GHT-118(EU)	High Voltage/Ground Bond Adapter Box
GHT-113	High Voltage Test Pistol
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
GRA-440	Rack Adapter Panel (19", 4U)

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