

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 μ 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



GW INSTEK

Simply Reliable

SPECIFICATIONS

AC WITHSTANDING		
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
DC WITHSTANDING		
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
INSULATION RESISTANCE		
Output Voltage		50V–1200V dc
Output-Voltage Resolution		50V
Output-Voltage Accuracy		±(1% of setting + 5V) [no load]
Resistance Measurement	Test Voltage Display Range	Measurement Range / Accuracy
	50V ≤ V ≤ 100V 0.1MΩ–10.00GΩ	0.1MΩ–1MΩ : ±(5% of reading + 3 count); 1 MΩ–50MΩ : ±(5% of reading + 1 count); 51MΩ–2GΩ : ±(10% of reading + 1 count)
	150V ≤ V ≤ 450V 0.1MΩ–20.00GΩ	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)
	500V ≤ V ≤ 1200V 0.1MΩ–50.00GΩ	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
GROUND BOND		
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
CONTINUITY TEST		
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
MEMORY		
Single Step Memory		MANU : 100 blocks
Automatic Testing Memory		AUTO : 100 blocks, Manu per auto : 10
INTERFACE		
Standard (Front)		REMOTE, USB host
Standard (Rear)		Rear Output, RS-232C, USB device, Signal I/O,
Option		GPIB, LAN
DISPLAY		
		7" color LCD
POWER SOURCE		
		AC 100V–240V ± 10%, 50Hz/60Hz; Power consumption : Max. 1000VA
DIMENSIONS & WEIGHT		
		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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