

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



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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	Measurement Range / Accuracy
50V ≤ V ≤ 100V	0.1MΩ~10.00GΩ
150V ≤ V ≤ 450V	0.1MΩ~20.00GΩ
500V ≤ V ≤ 1200V	0.1MΩ~50.00GΩ
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	GPIO, LAN

DISPLAY

	7" color LCD
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POWER SOURCE

	AC 100V~240V ± 10%, 50Hz/60Hz; Power consumption : Max. 1000VA
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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.)
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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	GPIO 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	GPIO Cable, approx. 2m
GRA-440	Rack Adapter Panel (19", 4U)

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