

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 | 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 | |
| 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

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|-----------|--|
| 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 |
|-------|-----------|-------|----------|

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) |

GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan
 T +886-2-2268-0389 F +886-2-2268-0639
 E-mail: marketing@goodwill.com.tw



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