

ORDER CODE HV000570

GSC57F

MULTIFUNCTION DEVICE FOR VERIFICATION OF ELECTRIC SAFETY AND POWER ANALYSIS ON SINGLE-PHASE AND THREE-PHASE INSTALLATIONS

GSC57F is the first big **multifunction** device developed by HT! In a **single device**, all functions of the most advanced systems for safety testing; **power analyses**, THREE-PHASE or SINGLE-PHASE (**voltages, currents, powers, power factor, energies**, etc.), voltage/current **harmonic analysis** (up to the 49th) and **an analysis of the anomalies on power supply voltages (dips, peaks)**; **continuity test with test current 10A**.

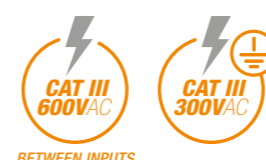
The device has a whole variety of functions and can be used with external probes for measuring **environmental parameters** such as **temperature/humidity** of air, **illuminance (Lux)** further to measuring **leakage currents, Loop/Line impedance** and calculating the **prospective short-circuit current** with high resolution (0.1mOhm) in TN systems with the use of the optional accessory IMP57.

Cutting-edge management of measurement with indication, at the end of each safety test, of **compliance or non-compliance** with requirements with simple symbols **OK** or **NOT OK**.

Reference standards

The device has been developed to carry out measurements, tests and analyses in compliance with the following standards:

- CEI 64-8
- IEC/EN61557-1
- VDE 0100
- VDE 0413
- IEC/EN61010-1
- 17th edition



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ZG47

MULTIFUNCTION DEVICE FOR VERIFICATION OF ELECTRIC SAFETY AND POWER ANALYSIS ON SINGLE-PHASE AND THREE-PHASE INSTALLATIONS

ZG47 is the complete and versatile **multifunction device** developed starting from real installation needs. In a **single device**, all functions of the most advanced systems for safety testing developed by HT; possibility of carrying out **power analyses**, THREE-PHASE or SINGLE-PHASE (**voltages, currents, powers, power factor, energies**, etc.), voltage/current **harmonic analysis** (up to the 49th) and **an analysis of the anomalies on power supply voltages (dips, peaks)**. The device has a whole variety of functions and can be used with external probes for measuring **environmental parameters** such as **temperature/humidity** of air, **illuminance (Lux)** further to measuring **leakage currents, Loop/Line impedance** and calculating the **prospective short-circuit current** with high resolution (0.1mOhm) in TN systems with the use of the optional accessory IMP57. Cutting-edge management of measurement with indication, at the end of each safety test, of **compliance or non-compliance** with requirements with simple symbols **OK** or **NOT OK**.

Reference standards

The device has been developed to carry out measurements, tests and analyses in compliance with the following standards:

- CEI 64-8
- IEC/EN61557-1
- VDE 0100
- VDE 0413
- IEC/EN61010-1
- 17th edition

Functions and characteristics

- Continuity of protective and equipotential conductors with 200mA and 10A
- Insulation with test voltage 50, 100, 250, 500, 1000VDC
- Tripping time and current on type A RCDs, AC General and Selective RCDs up to 500mA
- Non-trip earth resistance
- Line/Loop impedance P-N, P-P, P-PE also with high resolution (0.1mΩ) with optional accessory IMP57
- Earth resistance by voltammetric method
- Ground resistivity by 4-terminal method
- Phase sequence
- Leakage current (with optional clamp HT96U)
- Measurement of electric parameters (voltages, currents, powers, energies, frequency cosphi) in single-phase and three-phase systems
- Recording of electric parameters with integration period from 5s to 60min
- Voltage and current harmonic analysis up to the 49th with THD% calculation
- Analysis of voltage anomalies (dips, peaks) with resolution 10ms
- Numerical display, display of waveforms and harmonic histogram
- Measurement of air temperature (°C/°F), relative humidity (%RH) and Illuminance (Lux) with optional external probe
- **Internal memory: 2MB**
- **Optical/USB interface for transferring data onto the PC**
- **Backlight LCD display**
- **Power supply: 6x1.5V batteries type AA LR6**
- **Safety: IEC/EN61010-1**
- **Measurement category: CAT III 600VAC between inputs, 300VAC to earth**
- **Size (L x W x H): 225x165x105mm**
- **Weight (batteries included): 1.2 kg (approx.)**

Accessories provided

C2033X	Cable with 3-terminal Shuko plug
UNIVERSALKITG3	Set of 4 cables + 4 alligator clips + 3 leads
KITERRNE	Set of 4 cables + 4 earth probes
C5700	Power supply cable for test with 10A
HTFLEX3003	Set of 3 flex 300-3000A AC clamps, diameter 174mm
A0050	Power power supply 230VAC/12VDC
TOPVIEW2006	Windows software for PC + optical/USB cable
BORSA 2051	Soft carrying bag
	ISO9000 calibration certificate

Optional accessories

HT96U	Standard 1-100-1000A AC clamp, diameter 54mm
HT97U	Standard 10-100-1000A AC clamp, diameter 54mm
HP30C2	Standard 200-2000A AC clamp, diameter 70mm
HP30C3	Standard 3000A AC clamp, diameter 70mm
HT4005N	Standard 5-100A AC clamp, diameter 20mm
HT903	3x1-5A/1V box for external TA connection
C7000/05	Set of cables for continuity test 10A, 5m
C7000/10	Set of cables for continuity test 10A, 10m
HT52/05	Probe for measuring air temperature/humidity
HT53/05	Probe for illuminance measurement (Lux)
IMP57	Access. for measuring Loop impedance with high resolution
A0053	External power supply 110VAC-60Hz /12VDC
CN0050	Strap for slinging the device over one's shoulder
606-IECN	Connector with magnetic terminal
1066-IECN	Connector for cable extension banana 4mm

Functions and characteristics

- Continuity of protective and equipotential conductors with 200mA
- Insulation with test voltage 50, 100, 250, 500, 1000VDC
- Tripping time and current on type A, AC General and Selective RCDs up to 500mA
- Non-trip earth resistance
- Line/Loop impedance P-N, P-P, P-PE also with high resolution (0.1mOhm) with optional accessory IMP57
- Earth resistance by voltammetric method
- Ground resistivity by 4-terminal method
- Phase sequence
- Leakage current (with optional clamp HT96U)
- Measurement of electric parameters (voltages, currents, powers, energies, frequency cosphi) in single-phase and three-phase systems
- Recording of electric parameters with integration period from 5s to 60min
- Voltage and current harmonic analysis up to the 49th with THD% calculation
- Analysis of voltage anomalies (dips, peaks) with resolution 10ms
- Numerical display, display of waveforms and harmonic histogram
- Measurement of air temperature (°C/°F), relative humidity (%RH) and Illuminance (Lux) with optional external probe
- **Internal memory: 2MB**
- **Optical/USB interface for transferring data onto the PC**
- **Backlight LCD display**
- **Power supply: 6x1.5V batteries type AA LR6**
- **Safety: IEC/EN61010-1**
- **Measurement category: CAT III 600VAC between inputs, 300VAC to earth**
- **Size (L x W x H): 225x165x105mm**
- **Weight (batteries included): 1.2 kg (approx.)**

Accessories provided

C2033X	Cable with 3-terminal Shuko plug
UNIVERSALKITG3	Set of 4 cables + 4 alligator clips + 3 leads
KITERRNE	Set of 4 cables + 4 earth probes
HTFLEX33E	Flex clamp 3000A, diameter 174mm, 3 pieces
A0050	Power power supply 230VAC/12VDC
TOPVIEW2006	Windows software for PC + optical/USB cable
BORSA 2051	Soft carrying bag
	ISO9000 calibration certificate

Optional accessories

HTFLEX35	Flex 3000A AC clamp, diameter 274mm
HT96U	Standard 1-100-1000A AC clamp, diameter 54mm
HT97U	Standard 10-100-1000A AC clamp, diameter 54mm
HP30C2	Standard 200-2000A AC clamp, diameter 70mm
HP30C3	Standard 3000A AC clamp, diameter 70mm
HT4005N	Standard 5-100A AC clamp, diameter 20mm
HT903	3x1-5A/1V box for external TA connection
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