



# GSC60

MULTIFUNCTIONAL INSTRUMENT FOR ELECTRICAL  
SAFETY TESTING AND POWER QUALITY ANALYSIS



METEL HV000060

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AND POWER QUALITY ANALYSIS



NETWORK  
ANALYSIS

## ELECTRICAL SAFETY TESTING CEI 64-8

- > **Earth Resistance** with voltammetric method with 2 or 3 points in TT, TN and IT systems, **overall earth resistance** measurement via outlet and with T2100 voltammetric clamp (optional)
- > **Ground resistivity** with Wenner 4-wire method.
- > **Differential tests type A, AC, B, B+, F up to 1A**
  - > *General, Selective and Delayed*
  - > *Tests on RCD with split toroid up to 10A*
  - > *Differential trip time and current*
- > **Insulation Resistance** measurement with test voltage up to **1000V DC**
- > **Protective conductor continuity** measurement with test current **200mA**
- > **Protective conductor continuity** measurement with **current >10A** (with optional EQUITEST accessory)
- > **Advanced Loop Magnetothermal protection, fuse** testing and cable sizing
- > Measurement of **voltage drop** on line
- > **Phase sequence (SEQ)** testing
- > **Leakage current** measurement and recording over time
- > TopView software for data download and report generation

## NETWORK AND ENERGY CONSUMPTION ANALYSIS

- > **Measurement and recording of electrical parameters** (Voltages, Currents, Powers, Energies, cosphi, etc.) in Single-phase and Three-phase systems
- > **9 types of available electric systems**
- > **632 parameters recordable** for more than two months
- > Real-time display of **waveforms, harmonics, vector diagrams** and phase summary function
- > **Voltage anomalies** (sags, swells) with a minimum duration of 10ms



# TECHNICAL DATA SHEET

## TECHNICAL SPECIFICATIONS

Continuity of protective circuit with 200mA	●
Continuity of protective conductors with 10A	With optional EQUITES accessory
Insulation with voltage 50, 100, 250, 500, 1000VDC	●
Differential trip time/current type AC, A/F Standard/Selective/Delayed up to 1000mA	●
Differential trip time/current type B/B+ up to 300mA	●
Split toroid RCD trip time and current type AC, A/F, B/B+ Standard, Selective and Delayed up to 10A	With RCDX10 accessory
Loop Impedance L-N, L-L, L-PE and calculation of assumed short-circuit current	●
Line/Loop Impedance with high resolution	With optional IMP57 accessory
Percentage voltage drop on line	●
Leakage currents measurement and recording	With optional HT96U accessory
Environmental parameter measurement and recording (Temperature, Illuminance)	With optional probes
Network and power consumption analysis	●
9 types of available electric systems	●
632 Parameters recordable for more than 2 months	●
Voltage anomalies (sags and swells) with a minimum duration of 10ms	●
Active, Reactive, Apparent Power Measurement/Recording	●
Active, Reactive, Apparent Energy Measurement/Recording	●
Cospfi, Power Factor Measurement/Recording	●
Voltage and Current Harmonics Measurement/Recording up to 49th order and calculation of THD%	●
Voltage/Current vector diagram	●
Tables or histogram graphics of Harmonics and THD%	●
Summary table of main electric parameters	●
Online help on display	●
Measurement category	CAT IV 300V, max 600V between inputs
Colour touchscreen display	●
Integrated Wi-Fi and compatibility with HTANALYSIS app	●

## GENERAL SPECIFICATIONS

Dimensions (L x W x H)	235 x165 x 75mm
Weight (batteries included)	1.2 kg
Operating temperature	from 0°C to 40°C
Operating humidity	<80% RH
Protection rating	IP40
Power supply	6x1.5V type AA alkaline batteries or 6x1.2V type AA rechargeable NiMH batteries

# ACCESSORIES

## STANDARD ACCESSORIES

HTFLEX33E	Flexible clamp 3000A AC, max cable diam 174mm, 4pcs
C2033X	Cable with banana, green - black - blue, shuko plug
UNIVERSALKITG3	Set of 3 cables, 3 alligator clips and 3 leads, black red-green-blue
KITERRNE	Set of 4 cables + 4 ground probes + carry bag
PT400	Touchscreen pen (included with instrument)
A0061	External battery charger power pack with shuko cable
C2006	Optics/USB connection cable
PR400	Remote lead with START/STOP button
RCDX10	Accessories for tests on RCD with split toroid up to 10A
SP-5100	Set of straps for shoulder instrument use
VA500	Rigid carrying case
YABAT0003000	Rechargeable battery type AA NiMH, 1.2V, 6 pieces
YAMUM0063HTO	Quick start guide
Complete user manual and management software available online	
Calibration report	

## OPTIONAL ACCESSORIES

IMP57	Accessory for measuring high resolution Loop impedance
T2100	Clamp to measure ground probe resistance
HT52/O5	Probe for measuring temperature/humidity
HT53L/O5	Probe for measuring illuminance (Lux) of white sources and LEDs
606-IECN	Connector with magnetic termination
1066-IECN	Connector for cable extensions with banana, 4mm
HT4005K	Standard clamp with full scale 200A/1V AC
HT96U	Standard clamp with full scale 1/100/1000A-1V AC
HTFLEX35	Flexible clamp with full scale 3000AAC, diameter 274mm
HT98U	Standard clamp with full scale 1000A-1V DC, diameter 50mm
HP30D1	Standard clamp with full scale 1000A-1V DC, diameter 83mm
HP30C2	Standard clamp with full scale 200/2000A-1V AC
HP30C3	Standard clamp with full scale 3000A-1V AC
HT4004	Standard clamp with full scale 10-100A/1V DC + batteries included
HT4003	Standard clamp with full scale 400A/1V AC
HT4005N	Standard clamp with full scale 5-100A/1V AC
BORSA2051	Carry bag
EQUITEST	Instrument for measuring continuity with 10A test current

### HT ITALIA S.R.L.

Via della Boaria, 40 48018 Faenza (RA) Italy

T +39 0546 621002 | F +39 0546 621144

M vendite@ht-instruments.com | [ht-instruments.com](http://ht-instruments.com)