



GSC60

MULTIFUNCTIONAL INSTRUMENT FOR ELECTRICAL
SAFETY TESTING AND POWER QUALITY ANALYSIS





METEL HV000060

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FOR ELECTRICAL SAFETY TESTING
AND POWER QUALITY ANALYSIS



DISPLAY
TOUCHSCREEN



HTAnalysis™



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	●
Cosphi, 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

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