



ORDER CODE HV005037

MACROTESTG1

ADVANCED MULTIFUNCTION DEVICE FOR VERIFICATION OF ELECTRIC SAFETY OF DOMESTIC AND INDUSTRIAL ELECTRIC SYSTEMS (IEC/EN61557-1)

- **Earth resistance** by **voltammetric method** with 2 or 3 poles in TT, TN and IT systems, **non-trip earth resistance measurement** and earth resistance with stakeless testing method with **clamp meter T2100** (optional).
- **Ground resistivity.**
- **Measurement of electric parameters in single-phase** installations (V, I, W, VAR, VA, PF)
- Measurement of **continuity** of protection conductors.

MacrotestG1 fully takes advantage of the **touch-screen** technology developed for MacrotestG3 and, hence, of all its settings, but its application range is for **measuring earth resistance by voltammetric method**, also with **optional clamp T2100** and, finally, for **continuity measurement of protective conductors**. 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**.

You Tube



ORDER CODE HV000416

GEO416

DEVICE FOR MEASURING EARTH RESISTANCE AND GROUND RESISTIVITY

GEO416 has been developed to measure **earth resistance with 2 wires, 3 wires and 4 wires** by **voltammetric method** and ground resistivity. These values are extremely important while designing earth systems. The 2-wire method, by taking advantage of appropriate external masses as a reference (metal surfaces, tubes, neutral conductor, etc.), is particularly useful in domestic environments where, because of logistic problems, it is not possible to use the 3-wire method. The device allows carrying out **measurements with a wide measuring range (up to 50kOhm)** with an efficient internal compensation of the disturbance effects found on the installations. GEO416 is provided with an **internal memory for saving measurements** and with an **optical/USB interface for transferring** measured data onto the PC.

Functions and characteristics

- Continuity of protective conductors with 200mA
- Earth resistance by voltammetric method
- Earth resistance with stakeless testing method
- Ground resistivity by 4-wire method
- Measurement with use of remote lead (with optional accessory PR400)
- Measurement of electric parameters (V, I, W, VAR, VA, Wh, cosphi)
- Voltage and Current harmonics analysis and THD% and PF
- Help on line on the display
- Internal memory for measured data saving
- Power supply: 6x1.2V rechargeable batteries type AA NiMH or 6x1.5 alkaline batteries type AA
- Battery life: > 550 test (alkaline)
- Display: Resistive touch screen, colour LCD, resolution 320x240 pxl
- Memory: 999 locations, 3 levels of markers
- PC interface: optical, USB and WiFi
- Safety: IEC/EN61010-1, double insulation
- Operating humidity: <80%RH
- Operating temperature: 0÷40°C
- Storage humidity: <80%RH
- Storage temperature: -10÷60°C
- Measurement category: CAT III 240V, max 415V between inputs
- Pollution level: 2
- Reference standards: IEC/EN61557-1-2-3-4-5-6-7
- Size (LxWxH) and weight (batt. included): 225x165x75mm, 1.2 kg

Accessories provided

UNIVERSALKITG3	Set of 4 cables, 4 alligator clips, 3 leads
KITTERRNE	Bag with 4 cables + 4 metal probes
PT400	Touch-screen pen
BORSA2051	Soft carrying bag
YABAT0003000	1.2V NiMH AA rechargeable battery, 6 pieces
YABAT0004001	Battery charger for 6 AA/AAA batteries
TOPVIEW2006	Management software + optical/USB C2006 cable
	Quick user guide and User manual on CD-ROM
	ISO9000 calibration certificate

Optional accessories

T2100	Clamp for measuring the resistance of earth probes
SP-0400	Set for slinging the instrument over one's shoulder
606-IECN	Adapter for leads with magnetic terminal
1066-IECN	Connector for cable extension banana 4mm
PR400	Remote lead for test activation
VA500	Rigid transport case for device and accessories
VA504	Rigid transport case for device and clamp T2100

Functions and characteristics

- Earth measurement with 2 and 3 terminals
- Ground resistivity by 4-wire method
- Measuring range: 0.01Ω - 50kΩ
- Compensation of disturbance voltages
- Compensation of test cables
- Context help on the display
- Storage of results
- Interface: optical/USB for PC connection
- **Safety: IEC/EN61010-1**
- **Measurement category: CAT III 265V**
- Power supply with batteries type AA: 4x1.5V
- Size (LxWxH): 222x162x57mm
- Weight (batteries included): 1 kg

Accessories provided

KITTERRNE	Set of 4 cables + 4 metal probes
COC4-UK	Set of 4 alligator clips
BORSA2000	Soft carrying bag
	User Manual
	ISO9000 calibration certificate

Optional accessories

TOPVIEW2006	Windows software for PC + optical/USB cable
1066-IECN	Connector for cable extension 4mm
SP-0400	Set of straps for slinging the instrument over one's shoulder
VA500	Rigid transport case for device and accessories
YABAT0003000	1.2V NiMH AA rechargeable battery, 6 pieces
YABAT0004001	Battery charger for 6 AA/AAA batteries