



ORDER CODE **HV0000G2**

COMBIG2

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

- **All verifications of electric safety** provided for by **standards IEC/EN61557-1**.
- **Advanced Loop** Verification of magnetothermal protections, fuses and cable sizes.
- **Measurement of electric parameters in single-phase** installations (V, I, W, VAR, VA, PF)
- **Test of RCDs** type A, AC, B up to 1A, and earth leakage relays with test current up to 10A (with optional accessory RCDX10).
- Measurement of **insulation resistance**.
- Measurement of **continuity** of protection conductors.
- Verification of **phase sequence (SEQ)** and **leakage currents**.
- **Measurement of environmental parameters** through external probes.

COMBIG2 is used for checking the safety of domestic and industrial electric systems (IEC/EN61557-1).

Thanks to its building characteristics, the type of setting and the multiple applications as regards the documentation it is capable of producing, this device can satisfy even the most demanding technician and the most rigorous verifier.

Its TFT colour display with **touch-screen** allows using this device in a completely new manner. **COMBIG2 makes available on its display all possible variables to obtain a perfect measurement**; your task will only be to “touch” what you really want to measure: then, simply leave the rest to COMBIG2’s micro-processor!

The device complies with **all requirements as regards the safety of electric systems: test of RCDs type A, AC also up to 1000 mA and type B; insulation, continuity, earth resistance tests** directly on the power outlet without causing the RCDs’ tripping.

With the appropriate programming guided by the touch-screen system, this device can test the **breaking capacity, tripping current, I2t relevant to magneto-thermal switches (MCB) with curves B, C, D, K and fuses type gG and aM!**

Combined with **optional clamp HT96U** it is capable to carry out and record **measurements of leakage current, power, cosphi, harmonics, THD% and frequency**. This device has been devised for use together with optional accessories which widen its operating fields: e.g. **HT53/05** for measuring lux, **HT52/05** for measuring temperature and humidity and **RCDX10** for testing earth leakage relays **up to 10A**.

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**.

Finally, thanks to the brand new **HTAnalysis App, free to download for iOS and Android systems**, COMBIG2 is capable of transferring measured and recorded data onto tablets and smartphones, thus giving the operator the possibility to customize and share through **HtCloud** the result of their tests.



Power measurement, using the HTAnalysis™ App on tablet.



Lux measurement with accessory HT53/05.



Selection of RCD type and tripping current



Selection of test voltage and minimum limit value on measurement



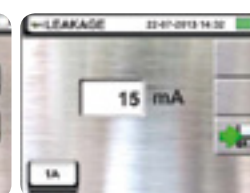
Measurement result negative



Selection of measurement type with external probe



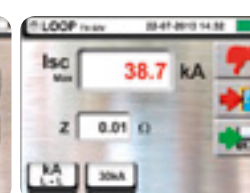
Selection of measurement type of phase sequence



Measurement of leakage current with optional clamp HT96U



General screen Advanced Loop



Negative result of breaking capacity test



Functions

- Insulation with voltage 50, 100, 250, 500, 1000VDC
- Continuity of protective conductors with 200mA
- Non-trip earth resistance
- Line/Loop impedance, Phase-Phase, Phase-Neutral, Phase-PE
- Line/Loop impedance, Phase-Phase, Phase-Neutral, Phase-PE with high resolution (0.1 mΩ)
- Prospective short-circuit current
- Contact voltage
- Tripping time of General, Selective and Delayed RCDs.
- Test current A, AC max 1A and type B max 300mA.
- Test on RCDs with separate clamp jaw up to 10A
- RCD tripping current (Ramp test)
- Phase sequence
- Measurement of percentage voltage drop on the lines
- Measurement with use of remote lead (with optional accessory PR400)
- Leakage current (with optional clamp HT96U)
- Measurement of electric parameters (V, I, W, VAR, VA, Wh, cosphi)
- Voltage and Current harmonics analysis and THD% and PF
- Measurement of environmental parameters (with optional probes HT52/05 and HT53/05)
- Help on line on the display
- Internal memory for measured data saving
- Optical/USB serial port for PC connection
- Integrated WiFi communication interface



Main features

Power supply:	6x1.2V rechargeable batteries type AA NiMH or 6x1.5 type AA alkaline
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 standard:	IEC/EN61557-1-2-3-4-5-6-7
Size (LxWxH):	225 x 165 x 75 mm
Weight (batteries included):	1.2 kg



Accessories provided

C2033X	Cable with 3-terminal Shuko plug
UNIVERSALKITCOMBI	Set of 3 cables, 3 alligator clips, 3 leads
PT400	Touch-screen pen
BORSA2051	Soft carrying bag
TOPVIEW2006	Management software + optical/USB C2006 cable
	Quick user guide
	User manual on CD-ROM
	ISO9000 calibration certificate



Optional accessories

HT96U	AC clamp for leakage current, 1-100-1000A/1V, diameter 54mm
IMP57	Accessory for measuring Loop impedance with high resolution
HT52/05	Probe for measuring temperature/humidity
HT53/05	Probe for illuminance measurement
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
RCDX10	Accessory for industrial RCDs up to 10A
YABAT0003000	1.2V NiMH AA rechargeable battery, 6 pieces
YABAT0004001	Battery charger for 6 AA/AAA batteries
PR400	Remote lead for test activation
VA500	Rigid transport case for device and accessories