



ORDER CODE HV000003

FULLTEST3

MULTIFUNCTION DEVICE FOR SAFETY TESTS ON SWITCHBOARDS AND MACHINES ACCORDING TO IEC/EN60204-1:2006 AND IEC/EN61439-1



- **Verification of dielectric strength** with test voltage up to 5100V in compliance with the prescriptions of new standard IEC/EN61439-1
- **Verification of protection against indirect contact** in compliance with the prescriptions of standard IEC/EN 60204-1:2006
- **Continuity of protective conductors** (test current 200mA ÷ 25A)
 - Verification of **RCD tripping** (RCD AC, A, B) up to 1A
 - Measurement of **Non-trip earth resistance**
 - Verification of coordination of **magneto-thermal protections** (MCB curves B, C, D, K) and fuses (gG, aM)
- **Insulation resistance** with test voltage up to 1000V
- Verification of **residual voltage** on capacitive elements
- Measurement of **leakage current** through the outlet and through optional clamp (HT96U)
- **Functional test** through outlet (power, current)
- **Phase sequence.**

HT offers a cutting-edge device to carry out all measurements required by the new laws as regards tests to be performed on electric switchboards and machines IEC/EN60204-1:2006 and IEC/EN61439-1.

Further to measurements of **protective conductors' continuity, insulation and dielectric strength**, FULLTEST3 is capable of carrying out tests on RCDs type A, AC and B, General, Selective and Delayed, measurements of Line/Loop impedance also with high resolution 0.1mΩ (with optional accessory IMP57), measurement of non-trip earth resistance and leakage current with clamp transducer. It can also carry out test on **breaking capacity, protection tripping, I2t tests relevant to magneto-thermal circuit breakers in curve B, C, D, K and fuses type gG and aM**. The device is also provided with a "touch-screen" colour display and 3 USB ports for connection to PC, USB pen drive, USB printers and possible bar code readers.



FULLTEST at work



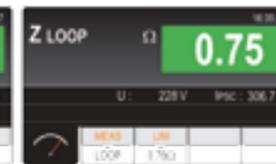
2-wire continuity test



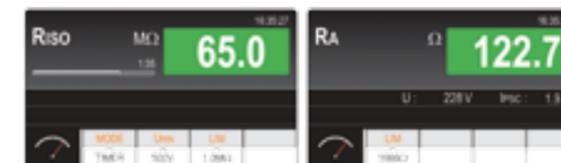
Test on RCDs



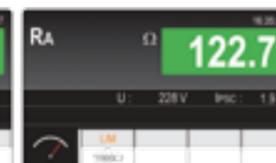
4-wire continuity test



Measurement of Loop impedance



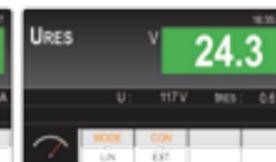
Measurement of insulation resistance



Measurement of non-trip earth resistance



Dielectric strength test



Residual voltage measurement



Compact USB printer with rechargeable battery

Soft carrying bag for accessories.

IMP57 (Optional)

HT96U (Optional)

FT3REDLP (Optional)

FT3RMTCT (Optional)

Functions

- Continuity of protective conductors with 200mA
- Continuity of protective conductors with I>10A, V<12V
- Continuity of protective conductors with I>25A, V<12V
- Insulation with test voltages 100, 250, 500, 1000VDC
- Dielectric withstand with voltage programmable from 250V to 5100VAC
- Discharge time/residual voltage on plugs and internal circuits
- Absorbed/leaked current and power at plug of machines
- Tripping time/current of type A, AC, B General and Selective RCDs up to 1000mA
- Contact voltage
- Line/Loop impedance and Ipsc calculation
- Line/Loop impedance with high resolution (with optional accessory IMP57)
- Non-trip earth resistance
- Leakage current (with optional accessory HT96U)
- Phase sequence
- Timer and limit thresholds selectable through programmable ramps

Main features

Power supply:	207V ÷ 253V / 50-60Hz
Protection:	with fuses, at input
Display:	LCD colour "touch-screen" display
Memory:	internal, 999 locations
PC interface:	USB (PC, pen drive, printers, etc.) and Bluetooth™
Mechanical protection:	IP40
Pollution level:	2
Safety:	IEC/EN61010-1
Considered standards:	IEC/EN61557-1-2-3-4-13-14 IEC/EN60204-1:2006 IEC/EN61439-1 IEC/EN60335-1 EN50106
Measurement category:	CAT III 300V (safety test) CAT III 300V (functional test)
Size (LxWxH):	400x300x170mm
Weight:	15 kg

Accessories provided

	Integrated power supply cable
2317-IECIV-200-R	Test cable 2.5mm ² , 2m, red, 2 pieces
2310-IECIV-200-B	Test cable 0.75mm ² , 2m, blue
2310-IECIV-200-V	Test cable 0.75mm ² , 2m, green
2310-IECIV-200-N	Test cable 0.75mm ² , 2m, black, 2 pieces
C2033X	Cable with 3-terminal Shuko plug
FT3HVPRB1	1 cable banana-alligator clip + 1 cable banana-lead 2m HV
404-IECN	Measuring lead CAT III, 3 pieces
5004-IECN	Alligator clip, 4 pieces
TOPVIEW2007	Windows software + USB cable
FT3BRSN	Soft carrying bag for accessories.
	ISO9000 calibration certificate
	User Manual
	Quick user guide
	User manual on CD-ROM

Optional accessories

IMP57	Accessory for measuring Loop impedance with high resolution
HT96U	Clamp for measuring leakage currents
FT3HVTIP	Cable banana-lead, black HV
FT3KB DEN	USB keyboard
FT3REDLP	Control lamp to warn tests are being carried out with cable length 7 m.
FT3RMTCT	Remote start/stop/save button with cable length 7 m.
FT3SFTSW	Open door detection device for verification room
C2009AD	Cable with adapter for connection to IMP57
FT3MPT2	Thermal printer with 32 columns
FT3BARCR	Bar code reader with USB port