



# FULLTEST3

MULTIFUNCTIONAL INSTRUMENT FOR SAFETY TESTING ON  
MACHINERY AND SWITCHGEAR IN ACCORDANCE WITH  
IEC/EN60204-1 AND IEC/EN61439-1-2



CODE **HV000003**

# FULLTEST3

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SAFETY TESTING ON MACHINERY AND  
SWITCHGEAR IN ACCORDANCE WITH  
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DISPLAY  
TOUCHSCREEN



**USB**  
UNIVERSAL SERIAL BUS

- › Dielectric strength testing with test voltage up to 5100V AC in accordance with IEC/EN61439-1-2
- › Loop Impedance L-L, L-N, L-PE and assumed short-circuit current measurement also with high resolution (with optional IMP57 accessory)
- › Protective conductor continuity (test current 200mA and 10/25A)
- › Verification of RCD differential switch tripping, type AC, A/F, B/B+, General, Selective and Delayed up to 1000mA
- › Overall earth resistance measurement
- › Magnetothermal protection (MCB curve B, C, D, K) and fuse (gG, aM) coordination testing
- › Insulation resistance with test voltage up to 1000V DC
- › Residual voltage testing on capacitive elements
- › Leakage current measurement in the outlet and through the clamp (HT96U, optional)
- › Functional test through outlet (power, current)
- › Phase sequence.



CERTIFICATO DI  
CALIBRAZIONE



# TECHNICAL DATA SHEET

## TECHNICAL SPECIFICATIONS

Continuity of protective circuit with 200mA	●
Continuity of protective circuit with $I > 10A$ , $V < 12V$	●
Continuity of protective circuit with $I > 25A$ , $V < 12V$	●
Insulation with test voltages 100, 250, 500, 1000VDC	●
Dielectric strength 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	●
RCD trip time/current, type AC, A/F, B/B+ General and Selective up to 1000mA	●
Contact voltage	●
Line/Loop Impedance and $I_{psc}$ calculation	●
Line/Loop Impedance with high resolution (with optional IMP57 accessory)	●
Overall earth resistance without RCD tripping	●
Leakage current (with optional HT96U accessory)	●
Phase sequence	●
Timer and limit thresholds selectable through programmable ramps	●
USB interface for connection to PC and optional accessories	●
TopView software for data download and analysis	●

## GENERAL SPECIFICATIONS

Dimensions (L x W x H)	400 x 300 x 170mm
Weight (batteries included)	15 kg
Operating temperature	from 0°C to 40°C
Operating humidity	<80% RH
Protection rating	IP40
Mains power supply	230V $\pm$ 10%, 50/60Hz $\pm$ 5%
Internal memory	max 999 tests

# ACCESSORIES

## STANDARD ACCESSORIES

C2033X	Cable with banana, green - black - blue, shuko plug
2310-IECIV-200-N	Test cable, 2m, Black, 0.75m <sup>2</sup> , 2 pieces
2317-IECIV-200-R	Test cable, 2m, Red, 2.5m <sup>2</sup> , 2 pieces
2310-IECIV-200-B	Test cable, 2m, Blue, 0.75mm <sup>2</sup>
2310-IECIV-200-V	Test cable, 2m, Green, 0.75m <sup>2</sup>
5066-IECN	Black alligator clip, 4 pieces
404-IECN	Measuring lead, 4mm, Black, 3 pieces
FT3HVPRB1	Set of 2 safety cables for HV testing
FT3BRSN	Accessory carry bag
C2007	USB connection cable
Quick start guide	
Calibration report	
Complete user manual and management software available online	

## OPTIONAL ACCESSORIES

HT96U	Rigid clamp with full scale 1/100/1000A AC
IMP57	Accessory for measuring high resolution Loop impedance
C2009AD	Cable with adapter for IMP57 connection
1066-IECN	Connector for cable extensions with banana, 4mm, Black
1066-IECR	Connector for cable extensions with banana, 4mm, Red
FT3BARCR	Bar code reader with USB port
FT3KB DEN	English keyboard with USB
FT3RMTCT	Adapter for remote Start/Stop/Save control with 7m cable and connector
FT3SFTSW	Safety contact with 7m cable + connector
FT3HVTIP	Black banana-lead cable for HV testing
FT3R-GLP	Red green lamp with 7m cable and connector
FT3BLACKBOX	Text box for Fulltest3
FT3MPT2	USB thermal printer with 32 columns

### 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**