

HT Instruments HTPRO Electrical Switchgear



# HT Instruments HTPRO Electrical Switchgear Instruction Manual

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# HT Instruments

HT Instruments HTPRO Electrical Switchgear



## Specifications

- **Product Name:** HTPRO
- **Application:** Commercial & Residential Electrical Installations
- **Main Features:** Professional-grade instruments for daily use
- **Years in Market:** 40 years
- **Research & Development:** Continuous innovation and high-performance instruments
- **Sales Network:** Extensive Italian and Foreign network
- **Warehouse Size:** 15,000 cubic metres
- **Sales Agents:** 65 Regional Sales Agents, 5 Area Managers

## Product Usage Instructions

### Introduction

The HTPRO is a professional electrical measuring instrument designed for both commercial and residential installations. It ensures operator safety and accuracy in measurements.

### Key Features

- High-performance tools for daily use
- Compliance with IEC 610101 safety standards
- Robust construction for durability
- Easy to use interface for quick measurements

### How to Use

## Safety Precautions

Before using the HTPRO, ensure that you are familiar with the safety guidelines provided in the user manual. Always wear appropriate personal protective equipment.

## Measurement Process

1. Turn on the HTPRO by pressing the power button.
2. Select the desired measurement function using the menu options.
3. Connect the instrument to the electrical circuit or component being tested.
4. Read and record the measurement values displayed on the screen.

## Data Management

The HTPRO may have data storage capabilities. Follow the instructions in the manual to save and retrieve measurement data as needed.

## Frequently Asked Questions (FAQ):

- **Q: Can the HTPRO be used for both commercial and residential electrical installations?**
  - A: Yes, the HTPRO is specifically designed for use in both commercial and residential settings, providing accurate measurements and ensuring operator safety.
- **Q: How do I calibrate the HTPRO?**
  - A: The HTPRO may require periodic calibration. Refer to the user manual for instructions on calibration procedures or contact the manufacturer for assistance.
- **Q: Is the HTPRO compliant with international safety standards?**
  - A: Yes, the HTPRO complies with IEC 610101 safety standards, ensuring protection against temporary overvoltages and other electrical hazards.

## COMMERCIAL & RESIDENTIAL ELECTRICAL INSTALLATIONS

### HTPRO

**Professionals are born. Or made.**

The best HT instruments for daily use in the commercial and residential sphere



**40 YEARS MARKING OUT SUCCESSFUL LINES**

## **Research & Development**

An office, the throbbing heart of HT Italia, a touchstone for every business strategy, the starting point of every new creation, tasked with supporting ideas and converting them into innovative, high-performance instruments. A perpetual fire that fuels a continuously evolving company, a present-day that is invariably also the future.

## **Head office**

3.800 square metres

## **The warehouse**

15.000 cubic metres

## **Italian sales network**

AGENCIES 15 65 REGIONAL SALES AGENTS

5 AREA MANAGERS

## **Calibrations and repairs**

For over 25 years, HT ITALIA has designed and built all circuit Testing and Analysis equipment in-house, allowing it to provide highly skilled technical support.

Today, with a view to providing an increasingly efficient service in line with Client expectations and thanks to an agreement with TRESICAL, HT ITALIA hosts its own separate, climate-controlled laboratory for the issue of Calibration Reports in accordance with ISO 9001, as well as Accredited Certificates (ACCREDIA) in accordance with ISO/IEC 17025.

## **Distributors 186**

Manned points of sale **1160**

Catalogued measuring instruments more than **680**

Foreign sales network

**70** DISTRIBUTORS

**3** REGIONAL MANAGERS

**2** EUROPEAN BRANCHES

## **STORYTELLING**

Concern and consideration for doing things right, a wealth of experience acquired over the years, an innate sense for innovation, a Future-oriented project cultivated day by day have all made HT Italia one of the most important and exemplary companies in the Market for electrical measuring instruments and a key point of reference for those, who, over time, have wanted or needed to approach this world from which they demand only the very best.

Latest-generation technology, state-of-the-art infrastructure, unique industry expertise, people, a team, the backbone that year after year, has guaranteed our success and allowed continuous growth on a global scale, from every point of view.

Putting forward our expertise, managing and transforming it into exclusive, high-performance instruments, catering to every specific need, is the challenge that has guided HT for more than 40 years and a means of addressing change, investing in the skills and trust of an increasingly demanding and evolved target market.

A modus operandi ensuring the added value of a continuously evolving organization.

## Certifications



Certified laboratory  
**LAT174**  
**of TRESICAL MS**  
at the HT-Italia head office

### SAFETY FIRST

Electrical measuring instruments, prior still to fulfilling their purpose, must consider operator safety as a basic requirement in terms of protection against temporary overvoltages that may arise due to the presence of complex electrical loads, short-circuit situations, lightening strikes, etc.

To this end, the international standard IEC 61010-1, Harmonised in Europe as EN 61010-1, has set out specific requirements that must be satisfied by electrical equipment designed for LV measurements (<1000VAC), creating four “Overvoltage Categories” that define the level of protection against the voltage transients of each instrument, depending on its distance from the power source.

Instruments belonging to the highest category require greater internal protection insofar as they can operate close to the source.

A short description is provided below



#### T Y P E O F M E A S U R E M E N T

Measurements on circuits  
not directly connected  
to the distribution network



Measurements on circuits directly connected  
to the low-voltage installation



Measurements  
on installations inside buildings



Measurements on a  
source of a  
low-voltage installation

### APPLICATION

- Protected electronic equipment, measurements not derived from mains
- Household appliances, hand-held tools and the like
- Distribution panels, cable harnesses, switches, fixed installation sockets, electric motors, industrial equip.
- Electricity meters, measurements on primary overcurrent protection devices, ripple control units

## TEST INSTRUMENTS

In residential installations, the CEI 64-8 standard requires certain checks in order to certify that the installation has been developed in a workmanlike manner. In addition to the usual voltage and current testers, HT ITALIA also offers simple, portable instruments for classic ground, RCD and insulation measurements.

**JUPITER / M75L / EASYTEST HT ITALIA's** Jupiter, a long-time leader in multifunctional system testing, is a revolutionary multimeter able to test 30 mA RCDs and perform earth tests, that is, carry out the essential checks required for all residential installations. The M75L model also includes insulation testing up to 500V, while EASYTEST can effectively carry out all the necessary 64-8 tests, including the possibility to save the results and generate a report via the supplied software.

**STARTERKIT** A single kit complete with a current clamp and digital tester for measuring the typical parameters in these types of electrical installations, specifically voltage, current and resistance. HT20: portable voltage tester.

**HT77C:** RCDs suddenly tripping due to leakage currents is a common occurrence. This instrument is able to measure these very small currents and get to the root cause, which are often household appliances with insulation problems.



CERTIFICATO DI  
CALIBRAZIONE

### FEATURES

**MULTIMETER SECTION** AC/DC and AC+DC voltage max 600V, low-impedance voltage input (LoZ), TRMS AC current up to 3000A with flexible clamp transducer F3000U (optional), resistance and continuity with buzzer, current frequency and voltage, MAX/MIN/PEAK/HOLD functions, 9999 counts, auto power-off and bargraph function.

**ELECTRICAL TESTING SECTION** global earth resistance without RCD tripping, measurement of tripping time on General RCDs type A, AC and F (30mA, 100mA, 300mA), tripping current on General RCDs type A, AC and F (30mA), Loop impedance L-L, L-N and calculation of presumed short-circuit current, current/voltage harmonics up to 25th and calculation of THD%, in-rush current (Dynamic INRUSH – DIRC), cyclic phase direction at 1 terminal.

METEL HV00075L

## M75L

TEST INSTRUMENT



**AUTOMATIC sequence:** global earth resistance, tripping time of RCDs type A 30mA, AC up to 300mA, tripping current of RCDs type A and AC 30mA (Ramp test), 250V or 500VDC insulation resistance measurement, continuity of protective conductors with 200mA, cyclic phase direction with 1 or 2 terminals, leakage current measurement with optional clamp HT96U\* Multimeter TRMS: AC/DC voltage, resistance and continuity, frequency.

METEL HV000100

## EASYTEST

MULTIFUNCTIONAL  
TEST INSTRUMENT



**AUTOMATIC test (Ra, RCD, Insulation)** in sequence, continuity of protective conductors with 200mA, Insulation resistance up to 1000V, polarity test, RCD testing type A, AC, F General and Selective up to 1A, line impedance and presumed short-circuit current measurement, testing of thermal-magnetic circuit breakers and fuses, Multimeter function to measure: Frequency, VL-N, VL-PE, VN-PE. Cyclic phase direction, voltage drop, internal memory and PC connection.





## HT 211

### DIGITAL MULTIMETER

TRMS AC/DC Voltage up to 600V TRMS AC/DC Current up to 10A Resistance and continuity with buzzer  
Capacitance, Diode and Frequency Test  
Temperature with K-probe Autorange.

## HT 7005

### CURRENT CLAMP

AC/DC Current up to 400A  
Inrush current  
Voltage detector with LED  
Data Hold.

## TEST INSTRUMENTS





100/1000V AC voltage detection, 50/60Hz, visual LED indicators and buzzers, ideal for testing sockets and switchgear.



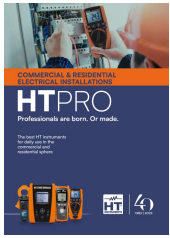
**HT APP**  
 LEAKAGE

Currents from 0.1 mA to 20 A, diameter 23 mm, LINESPLITTER supplied

## COMMERCIAL & RESIDENTIAL ELECTRICAL INSTALLATIONS HTPRO

- 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](mailto:vendite@ht-instruments.com) | [ht-instruments.com](http://ht-instruments.com)

## Documents / Resources



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### References

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