



RAILWAY INDUSTRY

HTPRO

Professionals are born. Or made.

The best HT instruments
for daily use in the
industrial railway industry





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

15 AGENCIES
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 TRESKAL, 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

Foreign sales network

70 DISTRIBUTORS

3 REGIONAL
MANAGERS

2 EUROPEAN
BRANCHES

Catalogued measuring instruments

more than
680



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 organisation.

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, lightning 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:

	TYPE OF MEASUREMENT	APPLICATION
	Measurements on circuits not directly connected to the distribution network	Protected electronic equipment, measurements not derived from mains
	Measurements on circuits directly connected to the low-voltage installation	Household appliances, hand-held tools and the like
	Measurements on installations inside buildings	Distribution panels, cable harnesses, switches, fixed installation sockets, electric motors, industrial equip.
	Measurements on a source of a low-voltage installation	Electricity meters, measurements on primary overcurrent protection devices, ripple control units

MULTIMETERS

HTPRO - RAILWAY INDUSTRY



METEL **HR000005**

IRONMETER

INDESTRUCTIBLE MULTIMETER



→ **TRMS**
AC/DC **CAT III**
600V

APPLICATIONS

Situations with a high risk of damaging and/or dropping the instrument

FEATURES

Indestructible TRMS multimeter, built-in LED torch, 600 V 10 A

METEL **HR00064P**

HT63P | HT64P

DIGITAL MULTIMETER



→ **TRMS** **6,000** **CAT IV**
AC+DC COUNTS **600V**

APPLICATIONS

TRMS AC+DC measurements, 4-20 mA readout, graphical display of measured quantities

FEATURES

TRMS measurements up to 60,000 counts, 4-20 mA process signal control, graphical display of measured quantities, current measurements with supplied AC/DC current clamp

METEL **HR000701**

HT701

PROFESSIONAL MULTIMETER



→ **TRMS** **MΩ** **CAT IV**
600V

APPLICATIONS

TRMS measurements and insulation tests with voltage up to 1000V

FEATURES

Insulation test at 50,100,250,500,1000 V DC, TRMS measurements, magnetic hanger supplied

CURRENT CLAMPS

HTPRO - RAILWAY INDUSTRY



METEL HP03010C | HP03013E

HT3010C HT3013C

CURRENT CLAMP



→ **TRMS**
AC/DC

AC/DC
CURRENT
MAX
400 A

CAT III
600V

APPLICATIONS

Current measurements in installations and switchgear up to 400 A AC/DC

FEATURES

Calibration certificate included, TRMS measurements up to 400 A AC/DC, voltage up to 600 V

METEL HP009025

HT9025

PROFESSIONAL
CURRENT CLAMP



→ **TRMS**
AC+DC

AC/DC
CURRENT
MAX
1000 A

25th HARMONIC
ORDER

CAT IV
600V

APPLICATIONS

Testing and maintenance on installations with strong current and voltage distortion

VFD
MEASUREMENTS
DOWNSTREAM
OF INVERTER

FEATURES

Voltage up to 1500 VDC, current up to 1000 A AC/DC, VFD (Variable Frequency Driver) function

METEL HP009023

HT9023

PROFESSIONAL
CURRENT CLAMP



→ **TRMS**
AC+DC

AC/DC
CURRENT
MAX
1000 A

25th HARMONIC
ORDER

CAT IV
600V

APPLICATIONS

Single-phase network analysis, harmonics measurement, large cable diameter

FEATURES

Power measurements (P,Q,S), harmonics up to 25th, voltage 1000V AC and 1500V DC, current up to 1000 A AC+DC, inrush current measurement with data recording

CURRENT CLAMPS

HTPRO - RAILWAY INDUSTRY



METEL **HA079PRO**

HT79

CURRENT CLAMP FOR
LEAKAGE CURRENT MEASUREMENT

CAT IV
600V → **TRMS** AC/DC
CURRENT

APPLICATIONS

Micro/milliamp currents and
leakage currents

FEATURES

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



METEL **HP030000**

F3000

CURRENT CLAMP
WITH FLEXIBLE TOROID

CAT IV
600V → **TRMS**

APPLICATIONS

Measurements in hard-
to-reach and poorly
lit locations such as
switchgear and kiosks

FEATURES

Flexible toroid for measurements up
to 3000 A AC, auto power-off
and autorange, backlighting, max
clampable cable 110mm

THERMAL IMAGERS

HTPRO - RAILWAY INDUSTRY



METEL HN000200 | HN000300 | HNTHT400
HN050000 | HN006000

THT200 | THT300 THT400 | THT500 | THT600

HIGH-TECH, PROFESSIONAL TOUCH-SCREEN THERMAL IMAGERS



APPLICATIONS

Maintenance on mechanical and electrical components including switchgear, switches, busbars, kiosks, motors and electrical cables



FEATURES

Resolution 120x90 pixels (THT200/THT500), 384x288 (THT300/THT600) and 640x480 (THT300), temperature range -20 to +650, advanced analysis functions, Wi-Fi, thermal image overlay on visible image, wide field of view, strap+ rangefinder+ built-in LED torch (THT500/THT600)

METEL HN000080

THT80

COMPACT TOUCH-SCREEN
THERMAL IMAGER

120x90
PIXEL

TEMPERATURE RANGE
-20° ÷ 550°C

APPLICATIONS

Inspection and maintenance on components at a distance of maximum 1.5 m and temperatures up to 550°



FEATURES

120x90 resolution, field of view 50x37°, thermal image overlay on visual image, data export via cable or Wi-Fi to dedicated software or APP

TEST INSTRUMENTS

HTPRO - RAILWAY INDUSTRY



METEL HRO0JUPI

JUPITER

INSTALLATION AND EARTH TESTING INSTRUMENTS



→ **TRMS** Earth resistance **CAT IV 600V**

APPLICATIONS

Continuity, insulation and earth resistance testing of electrical installations according to 64-8 on RCDs up to 300 mA

FEATURES

Testing of continuity and earthing, insulation up to 500 V DC (M75L), RCD tripping up to 300 mA type A and AC, calibration certificate included

METEL HV00519S | HV5036PR

COMBI519S MACROTESTG3S

INSTALLATION AND EARTH TESTING INSTRUMENTS



AC, A, B, B+, F
RCD

APPLICATIONS

Complete testing of electrical installations according to 64-8

FEATURES

Testing of continuity, insulation up to 1000 V DC, earth resistance, fault loop impedance / RCD type A, AC, B, F with test current up to 1 A or 10 A (MACROTESTG3) on split toroid circuit breakers, earth resistance with voltammetric technique (MACROTESTG3), cyclic phase direction, calibration certificate included

INSTALLATION AND EARTH TESTING

HTPRO - RAILWAY INDUSTRY



METEL HV000071

M71

INSTALLATION AND EARTH
TESTING INSTRUMENTS

Earth
resistance

APPLICATIONS

Earth resistance measurement
with stakes

FEATURES

Earth measurement with
voltammetric technique with
2 and 3 wires



METEL HN500000

HT5000

BURIED CABLE AND
METAL PIPES LOCATOR

APPLICATIONS

Detection of buried
components like pipes, metal
elements, electrical cables
and depth measurements

FEATURES

Inductive coupling with 33kHz
signal via antenna, direct 33kHz
coupling with external accessories,
selectable transmission power,
intermittent or continuous signal,
passive search mode without
transmitter, automatic depth
measurement, manual or automatic
sensitivity setting, headphone socket
for noisy environments

INSULATION TESTERS

HTPRO - RAILWAY INDUSTRY



METEL HRO00NEP NEPTUNE

INSULATION
TESTER



Insulation
Tester
1000 V

CAT IV
600V

APPLICATIONS

Insulation testing with voltage up to 1000 V on cables, motors, transformers

FEATURES

Test voltage range 250 to 1000 V DC, continuity of protective conductors up to 200 mA, current measurements with supplied clamp, calibration certificate included

METEL HV007051 HT7051

INSULATION
TESTER



APPLICATIONS

Insulation testing with programmable voltage up to 5000 V DC and measuring range up to 10 T ohms, ideal for LV industrial applications (testing of electrical machines, power transformers, electrical cables, switchgear, general devices, etc.)

FEATURES

Test voltage range from 100 V to 5000 V DC, programmable test timer from 5s to 100 min, internal memory for up to 700 measurements, calibration certificate included

CIRCUIT ANALYSERS

HTPRO - RAILWAY INDUSTRY



METEL HV000820

PQA820

SINGLE/THREE-PHASE
SELF-POWERED
CIRCUIT ANALYSERS



APPLICATIONS

Single/three-phase circuit
analysis with current up to
1000 A

FEATURES

IP65 enclosure case, mains
powered, 4 voltage and 4 current
inputs, voltage dip and spike
recording, integrated Wi-Fi for data
export via PC software, calibration
certificate included

METEL HV000740

VEGA74

SINGLE/THREE-PHASE
CIRCUIT ANALYSERS



APPLICATIONS

Analysis of three-phase circuits
with currents up to 3000 A
and real-time graphic and
numerical display of measured
quantities, measurements on
impedance boxes and leakage
current recording in the mA
range with HT96U

FEATURES

Recording and acquisition of 600
electrical parameters, possibility
to record leakage currents (with
optional HT 96U clamp), 9 types
of electrical systems available,
integrated Wi-Fi for data export via
PC software, calibration certificate
included

CIRCUIT ANALYSERS

HTPRO - RAILWAY INDUSTRY



METEL HV000060

GSC60

MULTIFUNCTIONAL
SAFETY TESTING INSTRUMENT



TOUCH
SCREEN
SYSTEM



APPLICATIONS

A single instrument for all IEC 64-8 tests (continuity, insulation, RCD testing up to 1 A and earth resistance with stakes) and single/three-phase circuit analysis up to 3000 A AC

FEATURES

All tests for low-voltage systems, recording and acquisition of 600 electrical parameters, possibility to record leakage currents (with optional HT 96U clamp), 9 types of electrical systems available, integrated Wi-Fi for data export via PC software and HT Analysis 2 APP

METEL HV000003

FULLTEST3

MULTIFUNCTIONAL
SAFETY TESTING INSTRUMENT



TOUCH
SCREEN
SYSTEM



APPLICATIONS

Continuity measurements on earth conductors up to 25 A and dielectric strength tests on electrical components up to 5100 V AC

FEATURES

A single instrument for switchgear and machine certification according to 61439-1 with testing of continuity up to 25 A, insulation up to 1000 V DC and dielectric strength up to 5100 V AC, professional report creation via TOPVIEW software, AUTOTEST function, calibration certificate included





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