

RAILWAY INDUSTRY

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



Italian sales network



AGENCIES

REGIONAL SALES AGENTS

MANAGERS

Calibrations and repairs

For over 25 years, HT ITALIA has designed and built all circuit Testing and Analysis equipment inhouse, 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 TRESCAL, 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

Foreign sales network



Manned points of sale

1160

EUROPEAN

REGIONAL

BRANCHES

Catalogued measuring instruments

more than

2



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







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, shortcircuit 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:

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

TYPE OF MEASUREMENT

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

MULTIMETERS HTPRO - RAILWAY INDUSTRY



IRONMETER

INDESTRUCTIBLE MULTIMETER

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** HT**63P |** HT**64P**

DIGITAL MULTIMETER



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**

PROFESSIONAL MULTIMETER



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







analysis, harmonics

diameter

measurement, large cable

FEATURES

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

JREMENTS DOWNSTREAM OF INVERTER **FEATURES**

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

current measurement with data

recording







30001

Constanting

METEL **HA079PRO** HT**79**

CURRENT CLAMP FOR LEAKAGE CURRENT MEASUREMENT

> 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**

CURRENT CLAMP WITH FLEXIBLE TOROID



APPLICATIONS

Measurements in hardto-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



HTPRO - RAILWAY INDUSTRY



METEL HN000200 | HN000300 | HNTHT400 HN050000 | HN006000

THT**200 |** THT**300** THT**400 |** THT**500 |** THT**600**

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**

COMPACT TOUCH-SCREEN THERMAL IMAGER



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 HROOJUPI JUPITER

INSTALLATION AND EARTH TESTING INSTRUMENTS

→ TRMS Earth CAT resistance 60



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



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



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

2 339 1

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







METEL HROOONEP

INSULATION TESTER



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** HT**7051**

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







METEL **HV000820**

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 VEGA**74

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







METEL **HV000060 GSC**60

MULTIFUNCTIONAL SAFETY TESTING INSTRUMENT



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



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





RAILWAY INDUSTRY





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