

More than safe, sure.

NEW

MACROEVTEST

Tester for checks on electric car recharging stations and verification of domestic and industrial electric systems



We build the future since 1983

More
than
sure.

MACRO**EV**TEST

safe,

**Recharging stations:
a new way to use electric
energy.**

MACROEVTEST, HT's new product
for **verification** and **checks** on
recharging stations for **electric**
cars (EVSE) in compliance with
standards IEC/EN 61851-1 and
IEC/EN60364-7-722, and for
safety tests in **private** and
industrial environments



WIFI
CONNECTION



TOUCH
SCREEN
SYSTEM



**BUILT-IN
CABLE**

TYPE 2* PLUG

* other plugs available
on demand

CHECKS ON RECHARGING STATIONS FOR ELECTRIC CARS

SIMPLIFIES

Connection is simple.

MacroEVtest is connected through the provided **C100EV** cable to **EV-Test100**, which is connected, through an in-built cable provided with type2 plug, to a recharging station.

SIMULATES

EV-Test100 can **simulate the presence of a car being recharged** and, at the same time, dialogues with **MacroEVtest** thanks to the new **display with touch screen system**, peculiar to HT's latest generation devices.

GUIDES

To correctly perform all tests, all you need to do is following the **GUIDED PROCEDURE** created by HT for this innovative instrument.

CONNECTS

Before each test, **MacroEVtest** indicates how **the cables must precisely be connected** and, at the end of measurement, further to the detected values, **it provides evaluations of the tests' outcomes**, if compatible or not for the **recharging station's safety**, indicated by a green or red thumb symbol.



TESTS

- › **CONTINUITY** test of the recharging station's protection conductor
- › **INSULATION** test of the recharging station
- › Verification of the **STATUSES** of the recharging station
- › Measurement of **OVERALL EARTH RESISTANCE**
- › Verification of the **RCD's** tripping (test of RCDs type A, B and type B 6ma)

VERIFICATION TESTS AND SIMULATIONS

- › Vehicle **not present**
- › Vehicle **present but not being charged**
- › Vehicle **present and being charged**
- › **Events and anomalies** which can be detected during the **recharging phase**
- › **Simulation of a fault** on the protection conductor
- › Indication of the **presence of voltages** on the EVSE output connector through LED
- › **Verification of the mechanical lock** in the connection to the station: **it is possible to check** that the station, during the recharging phase, **blocks the cable release** (if the station is provided with this function)

STANDARDS

IEC/EN 61851-1 and IEC/EN60364-7-722

MACROEVTEST

SAFETY CHECKS ON PRIVATE AND INDUSTRIAL SYSTEMS

MEASURES

The **TFT colour display** with **touch-screen** allows for a new and more versatile use of the instrument.

MacroEVtest offers on its display all possible alternatives for the performance of a perfect measurement.

PREPARES

The new system adopted by HT allows optimally preparing the instrument, before performing a test, by suggesting the **most suitable connections to certify correct and reliable tests**.

The **AUTO** function, in the system menu, allows **performing the tests very quickly**.

VALIDATES

At the end of each test, further to the measured value, **MacroEVtest** provides an **evaluation of the result**, indicating whether it complies or not with standards.

All tests can be saved and, in order to **create a printable report**, data can be transferred via **WiFi** to a **PC, smart phone** or **tablet**.



TESTS

- › Test of RCDs type A, type AC also up to 1000 mA and type B. By using the accessory RCDX10, provided with the instrument, it is also possible to test RCDs with external jaws up to 10 A.
- › Insulation tests up to 1000V
- › Continuity tests
- › Tests of overall earth resistance and voltammeteric resistance (further than with the provided rods, this latter test can also be performed by means of the optional clamp T2100).
- › With the appropriate programming guided by the touch-screen system, this device can test the interruption power, tripping currents, I_{2t} relevant to magneto-thermal switches (MCB) with curves B, C, D, K and fuses type gG and aM
- › Loop/Line impedance measurements and calculation of the assumed short-circuit current with high resolution (0.1mOhm) in TN systems with the use of the optional accessory IMP57

STANDARDS

IEC/EN 60364



Accessories provided

- › **C2033X**
Three wire cable with Schuko plug
- › **UNIVERSALKITG3**
Set of 4 cables + 4 alligator clips + 3 test leads
- › **KITTERNE**
Set of 4 cables + 4 earth probes + carrying bag
- › **PT400**
Touchscreen stylus (included inside meter)
- › **PR400**
Remote START/STOP switch probe
- › **ZEROLOOP**
Loop zero adapter
- › **EV-TEST100**
EVSE test adapter
- › **RCDX10**
Accessory to test earth leakage relay
- › **SP-5100**
Carrying straps
- › **TOPVIEW2006**
PC Windows software + optical/USB connection cable (order code: C2006)
- › **VA507**
Hard carrying case
- › **YABAT0003000**
Rechargeable battery NiMH, 1.2V, type AA 6 pcs
- › **YABAT0004001**
External charger
- › **YAMUM0058HTO**
Quick reference guide
- › **YAMUM0057HTO**
User's manual on CD-ROM
- › ISO calibration report



Optional accessories

- › **HT4005K**
Standard clamp with 200A/1V AC full scale
- › **HT96U**
Standard clamp with 1/100/1000A full scale
- › **IMP57**
Accessory for Loop impedance measurement with high resolution
- › **T2100**
Clamp for earth probe resistance measurement
- › **HT52/05**
Temperature/Humidity probe
- › **HT53/05**
Illuminance (lux) probe
- › **BORSA2051**
Carrying bag
- › **606-IECN**
Connector with magnetic tip
- › **1066-IECN**
Connector for extension of banana cables 4mm

By using external probes (*optional*), **MacroEVtest** can measure environmental parameters such as **air temperature/humidity, illuminance (Lux)**.

By using the optional **amperometric transducer** provided by HT, it is also possible to perform **measurements of LEAKAGE CURRENTS, COSPHI, POWER and HARMONICS**.



WATCH THE VIDEO
TUTORIAL



SEE THE TECHNICAL
DATA SHEET



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Diensten van EURO-INDEX

EURO-INDEX is fabrikant, importeur en distributeur van diverse A-merken op het gebied van test- en meetinstrumenten. Daarnaast leveren wij een groot aantal diensten om het gebruik van deze instrumenten in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van de instrumenten, maar ook kennisdeling via EURO-INDEX Academy en verhuur van instrumenten.

Geautoriseerd Service Centrum

EURO-INDEX b.v. is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

Kalibratielaboratorium

Het laboratorium in Nederland beschikt over een RvA accreditatie naar EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105. RvA kalibratiecertificaten zijn internationaal geaccepteerd en is gelijkwaardig aan BELAC.



Mobiele Service

Naast de vaste kalibratielaboratoria in Zaventem en Capelle aan den IJssel beschikken wij ook over een laboratorium op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

KWS®

KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Via een gratis webportal (mijnkws.be) heeft u altijd en overal beschikking over uw kalibratiecertificaten.

Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

EURO-INDEX Academy

- Trainingen, seminars en workshops
- Demonstratie- en instructievideo's
- Application notes



Servicebalie



Onderhoud, reparatie en kalibratie



Trainingen en seminars



Mobiele Service

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