

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<sub>2t</sub> 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 van BLAUWE LIJN en importeur/distributeur van diverse A-merken test- en meetinstrumenten. Wij leveren naast instrumenten ook de diensten om het gebruik hiervan in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van instrumenten, maar ook kennisdeling via de EURO-INDEX Academy en verhuur van meetinstrumenten.**

## Geautoriseerd Service Centrum

EURO-INDEX is van de meeste merken in ons assortiment 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 blijft intact, net als de certificering (ATEX, EN50379, etc.).

## Kalibratielaboratorium

Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij [accreditatienummer K105](#).



**Kijk voor een overzicht van al onze diensten op [euro-index.nl/diensten](http://euro-index.nl/diensten)**

## KWS®

KWS® is een unieke kalibratieformule voor uw test- en meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten.

Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app) en door de QR-code te scannen van de kalibratiesticker op het instrument.

## Verhuur van meetinstrumenten

Er zijn diverse situaties waarbij huren handig is:

- U heeft tijdelijk extra toestellen nodig.
- Uw eigen meetinstrument wordt onderhouden en/of gekalibreerd.
- U moet een eenmalige meting verrichten.

## EURO-INDEX Academy

- Trainingen (individueel en klassikaal)
- Cursussen, infosessies en workshops
- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Kalibratielaboratorium

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