



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.

MACROEVTEST

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

**MACROEVTEST + EV-TEST100**

# 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

# 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 voltammetric 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

### › KITTERRNE

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

### › YAMUM0058HT0

Quick reference guide

### › YAMUM0057HT0

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](#)



**HT ITALIA S.R.L.**

Via della Boaria, 40 48018 Faenza (RA) Italy

T +39 0546 621002 | F +39 0546 621144 | M [export@htitalia.it](mailto:export@htitalia.it) | [ht-instruments.com](http://ht-instruments.com)



# Services d'EURO-INDEX

**EURO-INDEX est un fabricant, importateur et distributeur de diverses marques A dans le domaine des instruments de test et de mesure. Nous fournissons également une large gamme de services pour optimiser l'utilisation de ces instruments dans vos activités. Ces services comprennent naturellement l'entretien, la réparation et l'étalonnage des instruments, mais nous proposons aussi une assistance sous forme de formation via notre EURO-INDEX Academy et la location d'instruments.**

## Centre de Service Agréé

EURO-INDEX est un Centre de Service Agréé pour toutes les marques représentées. Cela signifie que vos instruments sont pris en charge par des techniciens formés par le fabricant et disposant des outils et logiciels adéquats. Seules des pièces d'origine sont utilisées et la garantie de votre instrument, ainsi que les certifications (ATEX, EN50379, etc.) restent intactes.



## Laboratoire de maintenance et de calibrage

Le laboratoire des Pays-Bas est accrédité RvA selon la norme EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le champ d'application associé au numéro d'accréditation K105. Les certificats de calibrage RvA sont acceptés à l'international et équivalents à ceux de BELAC.



## Service Mobile

Outre les laboratoires d'étalonnage fixes de Zaventem et de Capelle aan den IJssel, nous disposons également d'un laboratoire itinérant appelé "Service mobile". Nos services puissent venir vers vous, en offrant une qualité équivalente.

## MQS®

MQS® est une formule d'entretien exclusive comportant un entretien et un calibrage périodiques de vos instruments de mesure à un coût fixe et faible. Via un portail Web gratuit ([monmqs.be](http://monmqs.be)), vous avez toujours accès à vos certificats de calibrage.

## Location d'instruments de mesure

- Vaste assortiment
- Précision démontrable par le certificat d'étalonnage actuel
- Conseils avisés
- Les instruments sont livrés avec leurs accessoires

## EURO-INDEX Academy

- Formations et séminars
- Vidéos de démonstration et d'instruction
- Notes d'application



Comptoir de service



Entretien, réparation et calibrage



Formations et séminars



Service Mobile

Sous réserve de modifications EURO-INDEX® FR 23001



BELGIQUE

Chaussée de Louvain 607  
1930 Zaventem  
T: 02 - 757 92 44  
F: 02 - 757 92 64  
[sales@euro-index.be](mailto:sales@euro-index.be)  
[www.euro-index.be](http://www.euro-index.be)

PAYS-BAS

Rivium 2e straat 12  
2909 LG Capelle a/d IJssel  
T: +31 - (0)10 - 2 888 000  
F: +31 - (0)10 - 2 888 010  
[verkoop@euro-index.nl](mailto:verkoop@euro-index.nl)  
[www.euro-index.nl](http://www.euro-index.nl)

