

NewRealGreen



Validation and inspection of electric car charging stations



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Recharging stations: a new way to use electric energy.

MACROEVTEST and COMBI521EV, HT'S new instruments for validation and inspection of electric car charging stations (EVSE) in compliance with standards IEC/EN 61851-1 and IEC/EN60364-7-722, and for safety tests in private and industrial environments. Thanks to the brand new HTAnalysis App, free to download for iOS and Android systems, MACROEVTEST and COMBI521EV are capable of transferring measured and recorded data onto tablets and smartphones, thus giving the operator the possibility to customize and share through HTCloud the result of their tests.



ORDER CODE **HA0EV100**

EV-TEST

EVSE ADAPTER FOR ELECTRIC VEHICLE CHARGER TESTING

- Suitable for charging stations with charging mode 2 and 3
- Vehicle simulation with Control Pilot (CP State)
- Cable capacity simulation with Proximity Pilot (PP State)
- Ground fault simulation (Fault PE)
- > Error simulation on the Control pilot signal (Fault E)
- > Phase presence indication via three LEDs
- Connection terminals for connecting external load, in order to verify the correct operation of the energy meter of the charging station
- Measurement terminals L1-L2-L3-N-PE to connect HT verification tools, perform safety and functional tests (such as RPE, RCD, ISO)
- Verification of the conformity of charging stations to the IEC 61851-1 and IEC 60364-7-722 standards









ORDER CODE **HV0521EV**

COMBI521EV

MULTIFUNCTION INSTRUMENT FOR ELECTRICAL INSTALLATION SAFETY TESTING, POWER QUALITY ANALYSIS AND EVSE SAFETY TESTING

AUTOMATIC SEQUENCE OF TESTS FOR THE VERIFICATION OF EVSE STATIONS

- > Check of the output voltage value
- Continuity check of the protective conductor
- > Insulation resistance measurement
- > Check of the status:
- Standby (status A)
- Vehicle detected (status B)
- Mechanical interlock verification (status B)
- Ready (charging) (status C) with ventilation (status D)
- Fault simulation on the protective conductor (fault PE)
- Fault on CP signal (fault E)
- Global earth resistance measurement
- Measurement of RCD tripping time (type A, type B and type DD 6ma)

















ORDER CODE **HV5036EV**

MACROEVTEST

MULTIFUNCTION INSTRUMENT FOR **ELECTRICAL INSTALLATION SAFETY** TESTING, POWER QUALITY ANALYSIS AND EVSE SAFETY TESTING

AUTOMATIC SEQUENCE OF TESTS FOR THE VERIFICATION OF EVSE STATIONS

- > Check of the output voltage value
- > Continuity test of the recharging station's protection conductor
- > Insulation test of the recharging station
- > Verification of the statuses of the recharging station
- Vehicle not present (status A)
- Vehicle present but not being charged (status B)
- · Mechanical interlock verification (status B)
- Mechanical interlock verification (status B)
- Fault simulation on the protective conductor (fault PE)
- Fault on CP signal (fault E)
- > Global earth resistance measurement
- Measurement of RCD tripping time (type A, AC, F, B 6ma, DD)



TECHNICAL



C2033X

Three wire cable with Schuko plug

UNIVERSALKITG3

Set of 4 cables + 4 alligator clips + 3 test leads (MACROEVTEST)

UNIVERSALKITCOMBI

Set of 3 cables + 3 alligator clips + 3 test leads (COMBI521EV)

KITTERRNE

Set of 4 cables + 4 earth probes + carrying bag (MACROEVTEST)) PT400

Touchscreen stylus (included inside meter) (MACROEVTEST) PR400

Remote START/STOP switch probe (optional for COMBI521EV)

> ZEROLOOP

Loop zero adapter (MACROEVTEST)

> EV-TEST100

EVSE test adapter

RCDX10

Accessory to test earth leakage relay (MACROEVTEST)

>SP-5100

Carrying straps

TOPVIEW2006

PC Windows software + optical/USB connection cable (order code: C2006)

VA507

Hard carrying case (optional for COMBI521EV)

YABAT0003000

Rechargeable battery NiMH, 1.2V, type AA 6 pcs (MACROEVTEST) YABAT0004001

External charger (MACROEVTEST)

YAMUMO058HTO

Quick reference guide

YAMUM0057HT0

User's manual on CD-ROM

ISO calibration report



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

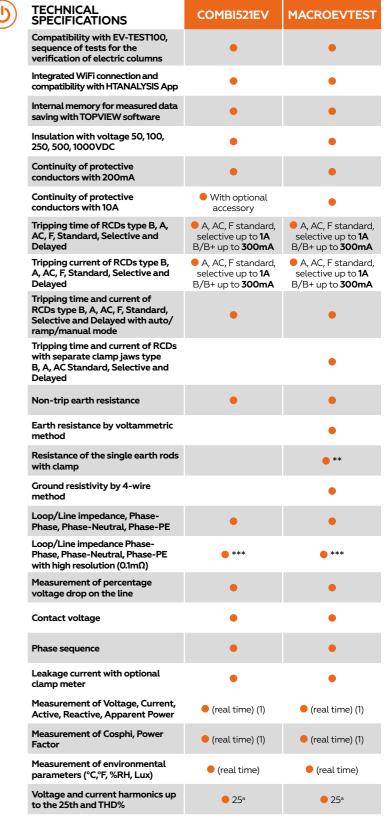
Carrying bag (Standard for COMBI521EV)

606-IECN

Connector with magnetic tip

1066-IECN

Connector for extension of banana cables 4mm



(**)With optional accessory T2100 (***)With optional accessory IMP57







