

We **COMBI**ne safety  
& innovation.

NEW



## COMBI521EV

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



We build the future since 1983

METEL HV0521EV

# COMBI521EV

Multifunction instrument for electrical installation safety testing, power quality analysis and EVSE safety testing

## AUTOMATIC EVSE SAFETY TEST SEQUENCE

- › Check of the output voltage value
- › Continuity check of the protective conductor
- › Insulation resistance measurement
- › Automatic safety test sequence on EVSE stations with check of the status
- › Global earth resistance measurement
- › Measurement of RCD tripping time (type A, type B and type DD 6mA)
- › OK and NOT OK results on each individual check and on the overall result of the automatic sequence

WiFi

AUTO  
TEST

EVSE  
TESTING

OK  
CALIBRATION  
REPORT



## COMBI521EV with EV-TEST100

### 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)
- OK and NOT OK results on each individual check and on the overall result of the automatic sequence

## COMBI521EV

### ELECTRIC INSTALLATION SAFETY TESTING

- AUTOMATIC test (no-trip ground resistance, RCD tripping time, insulation resistance) in a sequence
- Continuity of protective conductors with 200mA
- Insulation resistance up to 1000V, with dielectric absorption ratio D.A.R. and polarization index P.I.
- Polarity test
- Type A, AC, B, B+ and F type, General and Selective RCD tripping time and current
- Line/Fault impedance, Phase-Phase, Phase-Neutral, Phase-PE (also at high resolution with optional accessory IMP57)
- Coordination of MCBs and fuses
- Global earth resistance
- Phase sequence and conformity measurement
- Measurement of leakage current
- Measurement of electrical parameters in single-phase installations (V, A, W, VAR, VA, PF)
- Measurement of environmental parameters through external probes (HT52/05 and HT53/05)
- Internal memory and PC connection
- Wi-Fi connection to Android and iOS smartphones and tablets



## Standard Accessories

- › **C2033X**  
Cable with banana green - black - blue shuko plug
- › **UNIVERSALKITCOMBI**  
Set of 3 cables, 3 alligators and 3 test leads
- › **ZEROLOOP**  
Loop measurement reset accessory
- › **EV-TEST100**  
EVSE Adapter for Electric Vehicle Charger Testing
- › **SP-5100**  
Set of straps to carry the instrument over the shoulder
- › **BORSA2051**  
Carrying bag
- › **C2006**  
PC connection cable
- › **TOPVIEW**  
Windows PC software
- › Short user guide
- › Calibration report



## Optional Accessories

- › **VA507**  
COMBI521's carrying rigid case
- › **PR400**  
Remote lead with test starting button
- › **IMP57**  
Accessory for loop impedance measurement with high resolution
- › **HT4005K**  
standard clamp for ac current
- › **HT96U**  
Standard clamp with measuring range 1/100/1000A AC
- › **HT52/05**  
Probe for air/humidity
- › **HT53/05**  
Light meter probe class 1
- › **606-IECN**  
Connector with magnetic terminal
- › **1066-IECN**  
Black connector for extensions (4mm banana)

By using external probes (optional), **COMBI521EV** 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**.



SEE THE TECHNICAL  
DATA SHEET



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