ELIT EuroMaster AutoEv

Automatic test sequences, built-in charging station tester, logs current 1mA-1000A, ground plate

Technical description

Automatic test sequences
With the rotary switch in the AUTO position, the user can build up automatic test sequences as desired. A total of 5 different sequences can be made and each sequence can contain 6 different tests. Once the selected tests in a sequence have been performed, all results can be stored in one operation.
A unit function is a dedicated terminal for continuity measurement that allows you to perform all measurements without switching on the wires. With the plug adapter in the socket, for example, the following tests can be performed:
Short-circuit measurement - earth-fault circuit breaker test - continuity measurement - insulation measurement L-PE and N (L) -PE.
Total test time for the whole sequence is UNDER 20 seconds!

Testing of charging stations
Only tests on the market with built-in functionality for testing charging stations, no external boxes required. Connect the type 2 plug adapter ELIT PC-EV and EuroMaster AutoEv simulates the electric car for function testing of the charging station while you can read the programmed maximum charging current directly in amperes on the display.

Measurement and logging of current and leakage current
Analog input and a wide range of accessories make this a very flexible tester. Choose between 3 different traditional current clamps with Ø14mm, Ø40mm and Ø68mm light aperture. These can be used for measuring leakage current and current from 1mA to 100AAC. For measuring higher currents, two flexible current pliers can be used, a Ø36mm and a Ø150mm with a measuring range from 5A to 1000AAC.

Measurement of transition resistance to earth
To document transition resistance \ earth plate on the system, two methods can be used:
2-pole measurement uses E-working earth (or another known electrode) as a reference, quickly and easily.
3-pole measurement is performed where E-working earth can not be used, you then go out with 2 auxiliary spears / auxiliary electrodes the 3rd conductor is connected to the earthing to be documented.

Measurement of continuity in earth conductors and calculation of cable length
Instruments have 3 different modes for measuring continuity / Low Ohm with 200mA:
Continuous: Measurement is started and is active all the time (as on a multimeter) as soon as there is a closed circuit, the continuity is measured and the result is displayed. Here a limit value can be set with an acoustic alarm. Very effective if you have to perform many continuity measurements in a row since the test does not have to be started for each point.
+ 200mA: Standard continuity measurement: Connect and press «TEST», result is displayed after approx. 1 second.
+/- 200mA: Here the test is performed twice, with reversed polarity. A more time-consuming (3sec) and precise test that can more easily detect bad connections.

Measurement of insulation resistance
Very good resolution of 0.001M ohm provides precise measurement even at low values, useful for e.g. control of "other conductive part" where the limit is 10k Ohm (0.010M).
Test voltage 250V, 500V and 1000V can be selected as desired, maximum measured value is 1000M ohm.

Measurement of short-circuit currents and evaluation against price hedging
Quick switch between network system IT / TT or TN directly on the F5 button no search in menu required.
AutoEv measures between L-L, L-N or L-PE. The instrument automatically calculates Ik2pMin (0.76 or 0.38 factor) and ik3Pmax (1.15 factor)

Test of earth fault circuit breakers and calculation of loop resistance to earth
Tests all earth fault circuit breakers on the market: Type AC, A, F, EV, B and B +, as well as DC-RCM module in charging stations.

Control of direction of rotation and voltage measurement
Measures AC and DC voltage from 0V to 500V as well as frequency from 0Hz to 500Hz. To prevent measurement of ghost voltage (induced), LavZ function can be activated which lowers the input impedance of the tester.

EuroMaster AutoEv can store all measured values and tranfer via BLE to PDF

Advantages:

Product name/ Art.nr/ GTIN	ELIT EuroMaster AutoEv/ 10150014/ 7070811212308
According to:	---
Indication	Graphic
Limit value indication	Yes
Isolation resistance measurement	Yes
Isolation resistance measurement with ramp function	No
Resistances of isolating floors and walls	Yes
Over voltage protector testing	No
Low resistance measurement	Yes
Low resistance measurement with ramp function	No
Earthing measurement	Yes
Selective grounding measurement	Yes
Earth loop measurement	Yes
Specific grounding measurement	No
Loop resistance/impedance measurement	Yes
Loop measurement without RCD/FI release	Yes
Mains internal resistance measurement	Yes
Detection short-circuit current/overcurrent protection	Yes
RCD/FI testing	Yes
Curve shape at RCD/FI testing	For earth leakage switch type A, F and type B, B+
RCD/FI testing with rising residual current	Yes
RCD/FI analysis function	Yes
PRCD testing type S, type K	No
Testing of IMDs and RCMs	No
Measuring of leakage currents with adapter	Yes
Testing of charging devices E-Mobility, simulation of vehicle status	Yes
Field rotation test	Yes
Structured measured value memory	Yes
Measured value memory	Yes
Interface	Yes
Printer connection	No
Printer integrated	No
Remote control for testing device	Yes