

# Elma iTest 7400 Multifunction tester

Installation testing made easy



Correct testing and verification in accordance with IEC 60364-6 can be extensive, but no less important, as installation testing is quality control and thus the foundation when it comes to the functional and personal safety of electrical installations.

The first step for correct testing and verification is a test instrument with the necessary measurement functions; the next step is that the test instrument is user-friendly, and these are the points where the Elma iTest 7400 stands out!

To make the operation of the Elma iTest 7400 as easy as possible, test functions are selected with a rotary switch while test settings are changed via arrow keys. Settings and measured values are easily read on the colour display, which can also show help images if there is any doubt about a test setup.

The Elma iTest 7400 is equipped with functions for initial verification, periodic inspection, and troubleshooting of electrical installations:

Continuity test with 200 mA for verification of the protective conductor's continuous connection and/or potential bonding, as well as a simple continuity test/beep test with low test current.

Insulation resistance test at predefined test voltages from 50 V to 1000 V and adjustable threshold value.

Measurement of line impedance and voltage drop. Built-in fuse tables with thresholds make it easy to determine if the installation is safe.

Measurement of fault loop impedance taking into account the type of residual current protection for easy verification and without tripping the RCD.

RCD testing of all common types of residual current devices – also EVSE 6 mA DC. Separate test functions for trip time, current ramp test, and auto-test.

Voltage, frequency, and phase sequence measurement.

The Elma iTest 7400 is delivered in a softcase including test leads, probes, crocodile clips, test cables with both DK-EDB plug and schuko plug, rechargeable batteries and charger, calibration certificate, and user manual.

## Technical data:

### Voltage Measurement, AC

Measurement range: 0 V - 550 V

### Phase sequence/rotation

Voltage range: 50 V - 550 V

### RCD-test

Type AC, I $\Delta$ n: 6 mA, 10 mA, 30 mA, 100 mA, 300 mA, 500 mA, 650 mA, 1000 mA

Type A/F, I $\Delta$ n:	6 mA,10 mA,30 mA,100 mA,300 mA,500 mA,650 mA,1000 mA
Type B, I $\Delta$ n:	6 mA,10 mA,30 mA,100 mA,300 mA,500 mA,650 mA
EVSE/RDC-DD, I $\Delta$ n:	6 mA,30 mA
RCD-type:	G - Generel,S - Selektiv
Testfunktion:	Udkoblingstid, RDC t,Udkoblingsstrøm, RCD I,Berøringsspænding, Ub,Autotest

### Insulation Resistance Measurement

Measurement range:	0.100 M $\Omega$ - 999 M $\Omega$
Test Voltage:	50 V,100 V,250 V,500 V,1000 V

### Continuity check

Modstand, max:	99.9 $\Omega$
Indicator:	Acoustic,Display

### Continuity Test

Measurement range:	0.10 $\Omega$ - 1999 $\Omega$
Measurement principle:	Two wires
Measurement current:	200 mA

### Impedansmåling

Funktion:	Sløjfeimpedans (Z Loop),Netimpedans (Z Line),Spændingsfald ( $\Delta U$ ),Sløjfeimpedans u. udkobling (Z Loop RCD)
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Teststrøm v. 230 V:	3.4 A
Kontrol:	Sikringstabel
Kortslutningsstrøm (beregnet):	Ik

### Frequency Measurement

Measurement range:	10.0 Hz - 499 Hz
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## Related products

EAN	EL-NR	Product
200200		Calibration Installationtester
5706445320769	6398615716	Elma Easy-Iso
5706445840632	6398215048	Elma EVSE-200 type 2 EV
5706445321230	6398615729	16A CEE plug to banana socket adapter
5706445320592	6398615428	Magnettestprobe, $\varnothing$ 6,6mm
5703317460097	6398611257	Alligator clip 4mm Type 5004 Black