

5/10/15 kV insulation testers, ES3045/E/F



- Rated test voltages (V): 100V~ 15kV (model-dependent) with step-by-step adjustment function
- Insulation resistance range: 0.01 M ~ 50 T (model-dependent)
- DAR, PI measurement
- Short-circuit current: >5 mA
- DC voltage measurement range: 0 ~ 1000 V
- AC voltage measurement range: 0 ~ 750 V
- Capacitance measurement: 10 nF ~ 50 μF
- Automatic discharge
- Data storage: 500 measurement groups
- USB interface

The ES3045 series high-voltage insulation tester can be used to perform insulation testing with a measuring voltage of 5 kV (standard version), 10 kV (E), or 15 kV (F). In addition to the basic function, the device is suitable for measuring AC/DC voltage, absorption ratio, polarization index and capacitance.

The large backlit LCD screen, the memory for storing 500 measurement data, the possibility of recalling the measured values to the display, the adjustable limit value, the USB interface and the automatic shutdown ensure convenient use. The high measurement resolution, high interference suppression, high accuracy, low weight, reliable, stable performance measuring voltage further increase the comfort of use. The device has an impact-resistant, dust-proof and moisture-proof housing.

SPECIFICATIONS

Insulation test

Range	Best Resolution	Accuracy
ES3045		
Nominal measuring voltage: 100V, 250V, 500V, 1000V, 2500V, 5000V		
0,01M ~ 10T	0,01M	±3% rdg ±5 digits
ES3045E		
Nominal measuring voltage: 250V, 500V, 1000V, 2500V, 5000V, 10KV		
0,01M ~ 35T	0,01M	±3% rdg ±5 digits
ES3045F		
Nominal measuring voltage: 500V, 1000V, 2500V, 5000V, 10KV, 15KV		
0,01M ~ 50T	0,01M	±3% rdg ±5 digits

DC voltage

Range	Resolution	Accuracy
0 ~ 1000V	0,1V	±1.5% rdg ±3 digits

AC voltage

Range	Resolution	Accuracy
0 ~ 750V	0,1V	±1.5% rdg ±3 digits

DC current

Range	Resolution	Accuracy
0.01nA ~ 6mA	0.01nA	±5.0% rdg ±5 digits

Capacity

Range	Resolution	Accuracy
10nF ~ 50μF	10nF	±10% rdg ±5 dtgits

- Reference conditions: 23°C±5°C, 75% RH
- Output short circuit current: 6mA @15KV
- DAR and PI measurement
- Power supply: 12.6 V rechargeable battery
- Low battery status indication: empty battery symbol
- Display: 4-digit, large, backlit LCD, 108x65 mm
- Dimensions: L/W/H: 240 x 188 x 85mm
- Weight: 2750 g (with battery)
- USB interface + software
- Alarm if the measured value is greater / less than the set value
- Internal memory: 500 data groups, data can be recalled to the display
- Energy consumption
 - Standby state: Max. 30mA (backlight of), Backlight on: Max. 42mA, Measurement: 200mA max (backlight of)
- Automatic power-of : after 15 minutes
- Insulation resistance: 50M (between test lead and housing)
- Test voltage: AC3kV/50Hz 1 minute
- Operating temperature and humidity: -10... +50°C < 85%RH
- Storage temperature and humidity: -15... +55°C < 90%RH
- Relevant standards / regulations: IEC61010-1, IEC1010-2-31, IEC61557-1.5, IEC60529(IP54), degree of pollution: 2, CAT III 300 V



Accessories:

- High-voltage measuring tip with cable red 3 m, high-voltage measuring wire black 1.5 m, green 1.5 m
- USB cable + software
- Carry bag
- Battery charger
- Measuring tweezers
- Measuring hook
- Protocol
- User's Guide

RAPAS kft

1184 Budapest, Üllői út 315., Hungary

Tel.: 36-20-992-0078

E-mail: rapaskft@rapas.hu Web: www.rapas.hu