

SEFELEC RXS50-56

Dielectric Strength tester

The RXS50 dielectric strength tester in the XS range carries out simply and comprehensively the dielectric strength tests required by the principle standards concerned by the Low-Voltage Directive.

Available with options, it can be configured depending on the final application regarding its electrical specifications or its use.

Standards EN 61010-1, EN 60950, EN 60598-1, EN 60601-1, EN 60204-1

TECHNICAL CHARACTERISTICS

- Dielectric strength tester from 0 to 5 kV AC and from 0 to 6 kV DC (RXS56 model)
- Voltage 6 kV AC (as option)
- Power 50 VA
- Voltage and current measurement and display
- Delta I and IMAX breakdown detection modes
- 20 parameter memories per function
- Programmable Interface RS232

As option: PLC, IEEE488-2 and ETHERNET

Output voltage

- 0 to 5 kV AC (50 or 60 Hz).
- 0 to 6 kV DC (RXS56 model)
- Specification: $\pm (2\% + 50V)$ of the programmed value between 100 and 5000 V and for a current $< 100 \mu A$ with the breakdown detection modes: ΔI , IMAX or $\Delta I + IMAX$

Voltage reading

- On digital kilovoltmeter directly connected to the output terminals
- Specification: $\pm (1.5\% + 20V)$
- Display: 600 digits

Stability

- Better than 1 % for mains supply variations of $\pm 10\%$

Current

- Short circuit $< 13 mA AC$ and $< 9 mA DC$ for the maximum voltage adjustment
- Nominal about 10 mA AC, 4 mA DC

Current reading

- On shunt inserted into the test circuit
- from 0 to 999 μA
- from 1.00 to 9.99 mA
- Specification: $\pm (2.5\% + 2U) 1U = 1\mu A$ or 10 μA
- Resolution: 1000 digits

Fault detection

- "DELTATEST" detector adjustable from 1 mA/10 μsec .
- The ΔI detection allows total insensitivity to the current due to the resistance and the capacitance of the sample tested
- 'Imax' detector by maximum current adjustable from 0.01 mA to 9.99 mA by steps of 0.01 mA
- Combination of DELTA I and Imax modes

Imin threshold function

- Detects whether the test probe is connected correctly to the sample
- Adjustable from 0.01 mA to 9.99 mA

Continuous Voltage Option

- Positive pole to ground
- Residual ripple $< 1\%$ for $I < 100 \mu A$

Fault detection signalling

- By visual indication (LCD screen and LED lights) and sound
- Memorisation of the voltage and the default current on the LCD display unit
- Guaranteed HV generation interruption without overvoltage

Measurement time

- Adjustment of the rise, holding and fall times from 0 to 999 seconds or constant

Memorisation

- Memorisation of 10 test parameter configurations (voltage, thresholds, time,...)

PROTECTIONS

Instrument

- By time-delay fuse

Operator

- By security loop (double) suppressing voltage generation.
- Red light (very bright) signalling the presence of dangerous output voltage

Equipment under test

- Immediate fault detection and voltage interruption of the nominal voltage from the HV transformer.
- Short circuit of the output terminals and discharge of the capacitances tested (voltage option DC - $t < 1 sec per \mu F$)

GENERAL CHARACTERISTICS

Presentation

- Table device
- Metallic housing

Dimensions

- Height 131 mm
- Width 440 mm
- Depth 450 mm

Weight

- 15 kg

Power supply

- 230 V or 115 V $\pm 15\%$ single phase, 47 - 63 Hz
- Consumption: 70 VA



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Dielectric strength Tester

Operating temperature

- 0° C to + 45° C

Storage temperature

- -10° C to + 60° C

Overvoltage category

- CATII

Degree of pollution

- 2

Category

- Category 1 (earth leakage protection)

OPTIONS

XS-001-00

Option 6 kV AC for XS 50 VA

XS-02

PLC Interface, available contacts:

- START
- PASS and FAIL
- ENDOFTTEST
- FAULT

XS-03

Input output 0-10 V:

- Input 0-10 V to control high voltage.
- Output 0-10 V to read the current or voltage

XS-05

Removable outputs on the back

XS-06

IEEE488-2 interface (Talker - Listener)

XS-08

PLC Option
Input 0-10 volts

XS-100

Ethernet Option

XS-107

Voltage 8KVDC - Current adjustable from 1 μ A to 1 mA

With this option, the tester delivers only DC voltage

SOFTWARE

WINPASS-MX software for home appliances application

ACCESSORIES

TE54

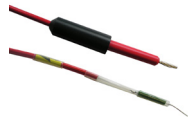
Test probe (dielectric + insulation)



Housing equipped with a mains socket

C0177

Fixed HV cord



PI001-00-L02

HV pistol with remote control - Length 2M

PI001-00-LXX

HV pistol with remote control - Length max 10M

PI001-02-L02

HV pistol with remote control - Length 2M

PI001-05-L02

2 HV pistol 50 VA + return remote control - length 2M



CO160-XS

Red/green light



KRXS

19" rack kit

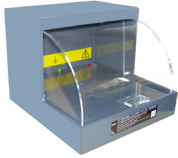


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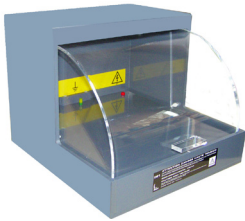
Dielectric Strength tester

SAFETY CAGES

CA001-00-00+CO007-00-L05
Safety cage for RXS50/56

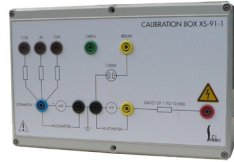


CA002-00-00+CO007-00-L05
Safety cage for RXS50/56



CALIBRATION BOXES

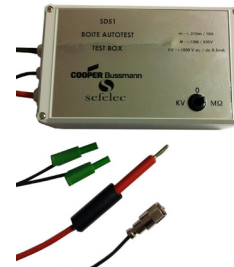
XS91-1
Calibration kit for dielectric strength test 50 VA up to 10 kV DC



XS91-5
Calibration kit for hipot



SD51
Fault simulator for XS 50 VA



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