

RXS50 - 50VA

RXS500 - 500VA



- ❑ Dielectric strength tester from 0 to 5 kVAC and 0 to 6 kVDC (RXS56, RXS506 models)
- ❑ 8 test step sequences
- ❑ 50 parameter sets storage
- ❑ Built in RS232C interface
- ❑ ETHERNET, PLC or IEEE488-2 interfaces on option

The RXS series dielectric strength testers perform easily and simply hipot test according to the VDE, UL, CSA standards and to the main EN European standards involved in the LOW VOLTAGE DIRECTIVE (LVD).

The RXS is a dielectric strength tester with AC only and DC for the RXS56 and RXS506 versions.

Together with the FMG rack, the RXS performs also leakage current measurement under nominal voltage, and power measurement, for single phase equipment as well as three phases equipment.

EN 61010-1, EN 60065, EN 60335-1, EN 60950, EN 60598-1, EN 60601-1 standards

TECHNICAL CHARACTERISTICS

DIELECTRIC STRENGTH TEST FUNCTION

Output voltage

- 0 to 5 kV AC (50 or 60 Hz). Limited to 4.2 kV AC with FMG501
- 0 to 6 kV DC (RXS56, RXS506)
- Accuracy: $\pm (2\%+50 \text{ V})$ (RXS50) and $\pm (3\%+50 \text{ V})$ (RXS500) of the preset value between 100 to 5000 V and for a current $< 100 \mu\text{A}$ (RXS50) and $< 1 \text{ mA}$ (RXS500) with the detection modes: ΔI , IMAX or $\Delta I+IMAX$

Voltage reading

- On a digital kilovoltmeter connected on the output terminals
- Accuracy: $\pm (1.5\% + 20 \text{ V})$
- Display: 600 digits

Stability

- Less than 1% for a mains variation of $\pm 10\%$ (RXS50)
- Less than 3% for a mains variation of $\pm 10\%$ (RXS500)

Current

- Short circuit $< 13 \text{ mA AC}$ (RXS50/56) and $< 9 \text{ mA DC}$ (RXS56) for the max. voltage adjustment
- Short circuit $> 200 \text{ mA AC}$ (RXS500/506) and $> 20 \text{ mA DC}$ (RXS506) for the max. voltage adjustment
- Short circuit duration limited to 5 seconds
- Nominal current : 10 mA AC (RXS50/56) and 4 mA DC (RXS56)
- Nominal current : 10 mA DC (RXS506) and 110 mA AC (RXS500/506)

Current reading

- On a shunt resistor inserted in the test circuit
- Accuracy: $\pm (2.5\% + 2U)$
 $1U = 0.01 \text{ mA}$ (RXS50)
 $1U = 0.1 \text{ mA}$ (RXS500)
- Display: 1000 digits

Breakdown detection

- "DELTA TEST" detector adjusted for $\Delta I = 1 \text{ mA} \pm 10\%$ (RXS50) and $\Delta I = 10 \text{ mA} \pm 10\%$ (RXS500) with $10 \mu\text{sec.} \pm 20\%$. Total insensitivity to current due to the resistance and the capacitance of the device under test
- "IMAX" detection by maximum current adjustable from 0.01 to 10 mA, by 0.01 mA steps (RXS50) and from 0.1 to 110 mA by 0.1 mA steps (RXS500)
- DELTA TEST and IMAX mode combination

IMIN threshold function

- Detects whether the probe is properly connected to the specimen under test
- Adjustable from 0.01 to 10 mA (RXS50) and from 0.1 to 110 mA (RXS500)

DC voltage (RXS56, RXS506 models)

- Positive pole grounded
- Ripple $< 1\%$ for $I < 100 \mu\text{A}$ (RXS56) and $I < 1 \text{ mA}$ (RXS506)

Breakdown indication

- By visual (LCD screen and LED) and sound signal
- Breakdown voltage and current are stored on the LCD display
- HV primary transformer shorted when the output voltage is switched off

Timer

- Rise, hold and fall time adjustment between 0 and 999 sec.
- Fast mode : (rise + hold) $< 900 \text{ msec.}$

Storage

- 10 test parameter (voltage, threshold, time,...) sets can be stored



GENERAL CHARACTERISTICS

Presentation

- Table top unit
- Metal case

Dimensions

Height : 131 mm
Width : 440 mm
Depth : 450 mm

Weight

27 kg

Power

- 230 V or 115 V \pm 15% single phase, 47-63 Hz
- Consumption: 70 to 600 VA depending on test

Operating temperature

0°C to +45°C

Storage temperature

-10°C to +60°C

Over-voltage category

CATII

Pollution degree

2

Safety class

Class I (earth connection)



OPTIONS

XS02

PLC interface :

- START contact
- FAULT contact
- PASS / FAIL contacts
- END OF TEST contact

XS03

0-10 Volts input/output :

- 0-10 Volts inputs to control the High Voltage
- 0-10 Volts outputs for voltage and current

XS05

Rear panel outputs

XS06

IEEE488-2 (Talker - Listener) interface

XS80

Ethernet interface

XS08

Option 02 + 03

XS10

Hipot – 6kV DC voltage for 50VA

XS13

Hipot – 6kV DC voltage for 500V

XS14

3 mA hardware limitation for 50 VA

XS27

Addition of insulation function

SOFTWARES

XS95

EasyScan software for driving XS Series equipped with Switching matrix

XS96

SXSPPro software for driving XS Series instruments

XS99

Delphi & C++ program examples



OPTIONNAL ACCESSORIES

TE54 (RXS50/56) - TE65 (RXS500/506)
Test probe for hipot



CO175
black ground return lead



CO160-xx
Red-Green lamp for HV indication



TE58-XS (RXS50/56)
Test probe with remote control for hipot



CO193 (RXS50/56) - C0192 (RXS500/506)
Test box with 6 international female sockets



AO10-XS
Two user hands occupied with safety user buttons



TE86 (RXS50/56) - TE83 (RXS500/506)
Test pistol with remote control for hipot



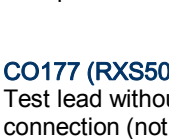
CO200 (RXS50/56) - C0201 (RXS500/506)
Test box equipped with 1 schücco female socket



AO11-XS
Remote control foot switch



TE84 (RXS50/56)
Test pistol without remote control for hipot



CO202 (RXS50/56) - C0203 (RXS500/506)
Test box equipped with 1 UK female socket

CO204 (RXS50/56) - C0205 (RXS500/506)
Test box equipped with 1 Swiss female socket

CO206 (RXS50/56) - C0207 (RXS500/506)
Test box equipped with 1 Italian female socket

CO208 (RXS50/56) - C0209 (RXS500/506)
Test box equipped with 1 US female socket

KRXS
19" rack mount kit



CO177 (RXS50/56) - C0180 (RXS500/506)
Test lead without probe for test system connection (not removable)



REMA0 to REMA8
High value Standard resistors (from 1 MΩ up to 1 TΩ)



CO210
Pistol for return earth for hipot

