

RMG12 AC/DC

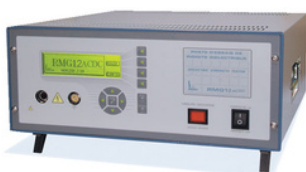
RMG12 DC

Datasheet



DIELECTRIC STRENGTH TEST STATIONS

RMG12 AC/DC | RMG12 DC



Models	RMG12 ACDC	RMG12 DC
OVERVIEW	Dielectric strength test station from 0 to 12 kVAC and 0 to 12 kVDC in a single range Bench-top device Metal housing	Dielectric strength test station from 0 to 12 kVDC Bench-top device Metal case with retractable support feet
Power	400VA	250 VA
Standards	Normes EN 61010-1, EN60335-1, EN 60950, EN 60598-1, EN 60601-1, EN 60204-1	
Disconnection Modes	Delta I, IMAX	
Interfaces	RS232, API, IEEE488-9	
Power Supply	230 V \pm 15%, single-phase, 47/63 Hz Consumption: 600 VA	
Storage Temperature	10°C to +60°C	
Operating Temperature	0°C to +45°C	
Overvoltage Category	CAT II	
Pollution Degree	2	
Class	Class 1 (protective earth)	
Dimensions		
Height	180 mm	
Width	430 mm	
Depth	470 mm	
Weight	20 Kg	
PROTECTIONS		
Instrument	Fused protection	
Operators	Safety loop preventing voltage generation; red/green lamps indicating dangerous voltage presence	
Equipment under test	Immediate fault detection and voltage cut-off at the transformer primary; discharge relay to ground	
SOFTWARE		
Logiciel WINPASS MX	Control and supervision software with test report generation	

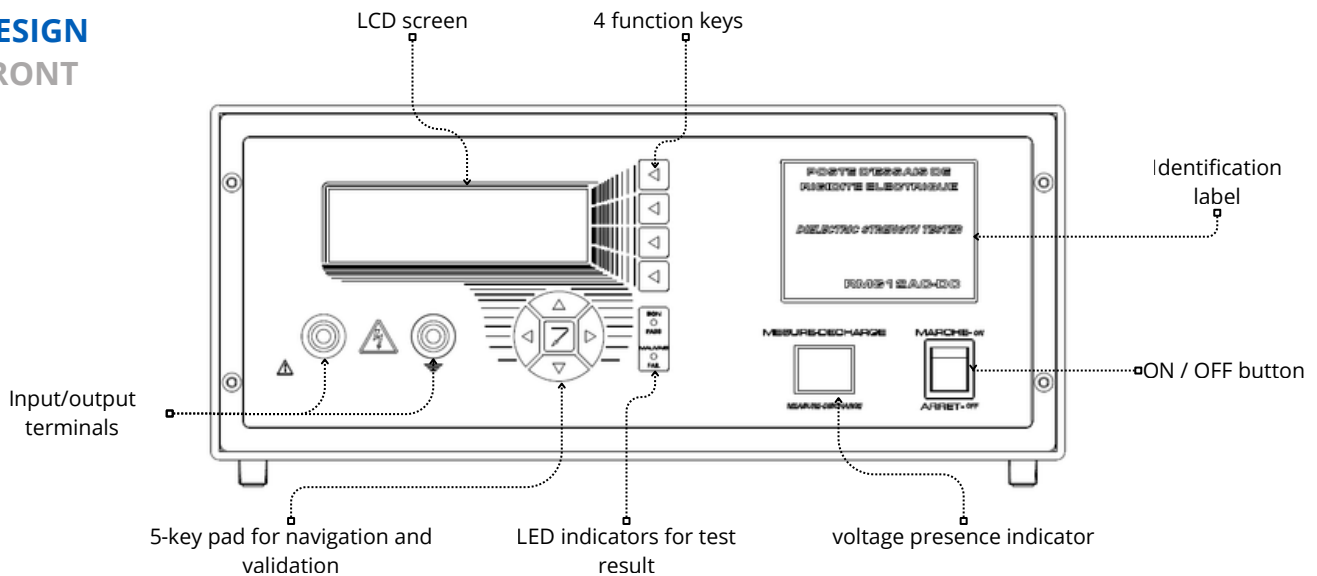
DIELECTRIC STRENGTH TEST FUNCTION

Models	RMG12 ACDC	RMG12 DC
Output Voltage Range	0 to 12 kVAC (50/60 Hz) and DC Accuracy: $\pm(3\% + 50 \text{ V})$ Condition: Current < 1 mA Disconnection Modes: ΔI , IMAX, combined modes	0 to 12 kVDC Accuracy: $\pm(3\% + 50 \text{ V})$ Condition: Current < 1 mA Disconnection Modes: ΔI , IMAX, combined modes
Voltage Reading	<ul style="list-style-type: none"> Digital kilovoltmeter directly connected to output terminals Accuracy: $\pm(1.5\% + 20 \text{ V})$ Display: 1200 points 	
Stability	Better than 3% for $\pm 10\%$ mains variations	
Current	Short-circuit: $\geq 50 \text{ mA AC}$ $\geq 16 \text{ mA DC}$ (for maximum voltage setting, limited to 5 s) <ul style="list-style-type: none"> Nominal: approximately 35 mA AC 	Short-circuit: <ul style="list-style-type: none"> 20 mA DC (for maximum voltage setting, limited to 5 s) Nominal: approximately 10 mA DC
Current Reading	On shunt inserted in the test circuit Accuracy: $\pm(2.5\% + 2 \text{ U})$, where 1 U = 0.1 mA Resolution: 1000 points	
Fault Detection	<ul style="list-style-type: none"> ΔI (Delta I): set at 10 mA $\pm 10\%$, response time 10 $\mu\text{s} \pm 20\%$ → Completely insensitive to current caused by the sample's resistance and capacitance I_{max} AC: adjustable from 0.1 mA to 40.0 mA in 0.1 mA steps I_{max} DC: adjustable from 0.1 mA to 20.0 mA in 0.1 mA steps Combined modes: $\Delta I + I_{\text{max}}$ 	<ul style="list-style-type: none"> ΔI (Delta I): set at 10 mA $\pm 10\%$, response time 10 $\mu\text{s} \pm 20\%$ → Completely insensitive to current caused by the sample's resistance and capacitance I_{max} DC: adjustable from 0.1 mA to 20.0 mA in 0.1 mA steps Combined modes: $\Delta I + I_{\text{max}}$
I_{min} Threshold Function	<ul style="list-style-type: none"> Detection of correct probe connection on the sample Threshold setting: AC: 0.1 mA to 40.0 mA DC: 0.1 mA to 20.0 mA Fault indication: visual (LCD + LED) and audible Storage: voltage and fault current saved on LCD High-voltage primary cut-off at zero crossing of the sine wave 	<ul style="list-style-type: none"> Detection of correct probe connection on the sample Threshold setting: 0.1 mA to 20.0 mA
Fault Detection Indication	Visual indication (LCD screen + LED indicators) and audible signal Storage of fault voltage and current on the LCD display Cut-off of the high-voltage source primary at the sine wave zero crossing	
Measurement Time	MANUAL: without timing AUTO: with timing (Rise, Hold, Fall adjustable from 0 to 999 s or permanent) Time per voltage step: 1 s (e.g., 1000 V / 5 s = 5 steps of 200 V) AC: rise time $\geq 3 \text{ s}$ for voltages > 10 kV DC (recommended): rise/fall > 5 s for voltages 100 V to 5 kV 10 s beyond 5 kV	
Memory	Storage of 10 test parameter configurations (voltage, thresholds, timing, etc.)	

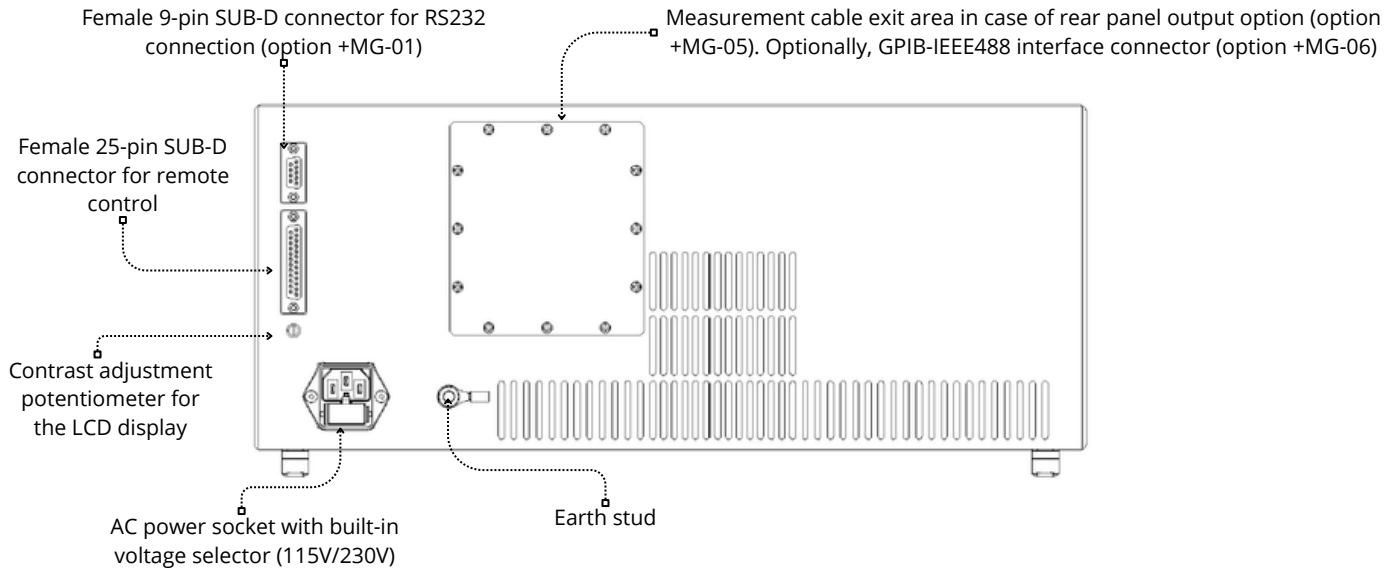
OPTIONS		12 ACDC	12DC
MG01	RS232C Interface	✓	✓
MG02	PLC interface (START, PASS, FAIL, END OF TEST, FAULT)	✓	✓
MG03	0–10 V: Analog input and output for RMG15	✓	✓
MG06	Interface IEEE4882 (Talker Listener)	✓	✓
MG08	02 + 03 Options	✓	✓
MG93	Remote control box	✓	✓
MG101	RS interface for data transmission during remote control via PLC interface	✓	✓
WINPASS MX	Control and supervision software for the tester with test report generation	✓	✓

ACCESSOIRES		12 ACDC	12DC
TE89	Test probe	✓	✓
CO175	Ground return wire (2m-10m)	✓	✓
CO245	TE89 without probe	✗	✓
CO160	Red/Green lamps for voltage presence	✓	✓
KRMG4U	19" rack mounting kit	✓	✓
CO007-04-L05	Cordon d'adaptation au RMG15/12 pour CA00-X	✓	✓
AO10	Safety "two-hand" buttons	✓	✓
AO11	Remote foot switch	✓	✓
Calibration kit	Component & Manual	✓	✓

DESIGN FRONT



BACK



Discover our product ranges:



Automatic cable tester SYNOR

- From 8 to 140,000 test points
- Continuity in 2 and 4 wires up to 10A
- Isolation up to 5000V DC
- Dielectric strength up to 4000V AC and 5500V DC
- Configuration: in cabinet or compact case, mobile or remote



SCANNER 64-SC

- High density: 8 to 512 channels
- Maximum voltage: 5kVAC 500VA and 6kVDC
- Insulation: up to 200GΩ under 1000 VDC
- Ground continuity: up to 32A AC max.
- Compliant with: IEC 61010-2-034



SEFELEC 5X

- Dielectric strength: 5 kVAC and 6 kVDC with a power of 50 or 500VA
- Insulation measurement: under 1000VDC for measurements up to 2 TΩ
- Ground continuity control: under 32A or 50AAC