

DIELECTRIC STRENGTH (HIPOT, FLASH) TESTER

DT SERIES



- ✓ AC/DC dielectric strength test
- ✓ PLC control, RS232 interface, 0-10 volts control
- ✓ manual, automatic or programmable command
- ✓ complies with IEC60, EN61010-1, EN60065, EN60335-1, EN60598-1, EN60601-1, EN60950, CEI990, and many other standards



PROGRAMMABLE VERSION WITH EXTERNAL TRANSFORMER



AUTOMATIC VERSION WITH EXTERNAL TRANSFORMER



MANUAL VERSION WITH INTEGRATED TRANSFORMER



PROGRAMMABLE VERSION WITH INTEGRATED TRANSFORMER AND SAFETY CAGE

“ Each model is built according to voltage and current customer requirement in order to keep our low cost policy ”

DT1 series

DT2 series

DT3 series

AC/DC hipot test

AC/DC voltage power	1kVA up to 400kVA
Nominal AC power	up to 500kVA
Nominal DC power	up to 100kW

Construction type	Dry insulation	Oil insulation	Oil insulation - heavy duty
Power type	Low voltage, high power	High voltage, medium power	High voltage, high power
Presentation	On demand, transformer and control unit can be separated or in a same rack or cabinet, and can integrate a safety cage		

Other specifications

Dimensions (W x H x D)	According to its power, DT are presented in a 19" cabinet, 19" rack or pult desk (see picture examples)
Weight	Weight is according to the model

Accessories

No particular accessory is delivered with DT. HV output is made through an anti-corona device or cable according to DT presentation.

Options

- ✓ RS232
- ✓ 0-10 volts
- ✓ PLC
- ✓ Wheels

Calibration

A wide range of high voltage dividers is available on demand.

ISO 9001 CERTIFIED MANUFACTURER

SEFELEC

Parc d'activités du Mandinet
19 rue des Campanules
F-77185 Lognes - France
Tel. +(33)1 64 11 83 42 / Fax + (33)1 60 17 35 01
sefelec.marketing@sefelec.com

Distributor:

DIELECTRIC STRENGTH (HIPOT, FLASH) TESTER

DT SERIES - CONTROL TYPES



MANUAL CONTROL



AUTOMATIC CONTROL



PROGRAMMABLE CONTROL

	Manual control	Automatic control	Programmable control
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Test voltage adjustment	manually through a rotative knob	10 turn potentiometer + display	programming menu
Voltage rise/fall	manually through a rotative knob	automatic ¹	manual or programmable ²
Current limit adjustment	no, fixed at I_n	yes, adjustment from 0 to I_n	yes, adjustment from 0 to I_n
Rise time adjustment	no	fixed : aprox. 20s full scale	from 20s up to 80s full scale ²
Hold time adjustment	no	from 1 st to 60 hours	up to 32 000 seconds or permanent ²
Fall time adjustment	no	no	up to 80 seconds ²
Accuracy	better than 2.5%	better than 1.5% ± 1 digit	better than 1.5% ± 1 digit
Regulation	no	± 1 % of the scale for ±10 % of mains variation	

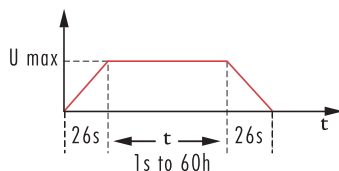
Panel indications

Emergency stop with key	yes	yes	yes
Start/stop button	yes	yes	with function keys
Stand-by/high voltage light	yes	yes	yes
Breakdown light	yes	yes	failure message with rec. values
Breakdown values	no	U	U, I, t
Display	analog	digital display 3 1/2 digits	displayed on screen 3 1/2 digits

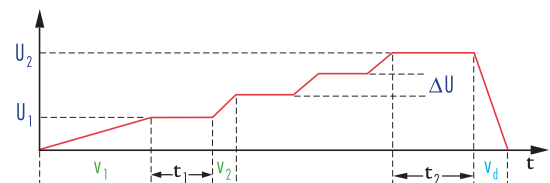
Optionnal interfaces

RS232	no	no	yes
0-10 volts	no	yes	yes
PLC (start, stop, reset)	no	yes	yes

¹ possible cycle with **automatic control**. 26s is the maximum time for the variac to reach the highest voltage.



² possible cycle with **programmable control**.



Utilization:

- ✓ Settings: push the visualization button and turn the corresponding potentiometer to set the current threshold and the test voltage. Then set the test time on the timer.
- ✓ Test : push the start button then the voltage generation starts from zero. The timer starts when the regulation voltage is reached.
- ✓ End of test: at the end of the test time or when the stop button is pushed, the voltage falls down to zero before the high voltage is cut.
- ✓ In case of a failure, the high voltage is immediately cut, the failure lamp is lit and the breakdown voltage is displayed on the kilovoltmeter.

Utilization:

- ✓ Settings: range selection, current threshold, rise and fall speeds, voltage levels U_1 and U_2 , voltage steps ΔU between intermediate levels, timer t_1 for U_1 and intermediate levels, t_2 for U_2 . For a simple test: set $\Delta U=0$.
- ✓ Test: commands start, stop, up, down, clear, with function keys.
- ✓ End of test: the test result is displayed with the last recorded measurements.

Pi Option: All the controls and measurements are accessible via RS232. The furniture includes a shielded cable and an opto-bridge. An executable "demo" software is provided to test the RS232 functions.