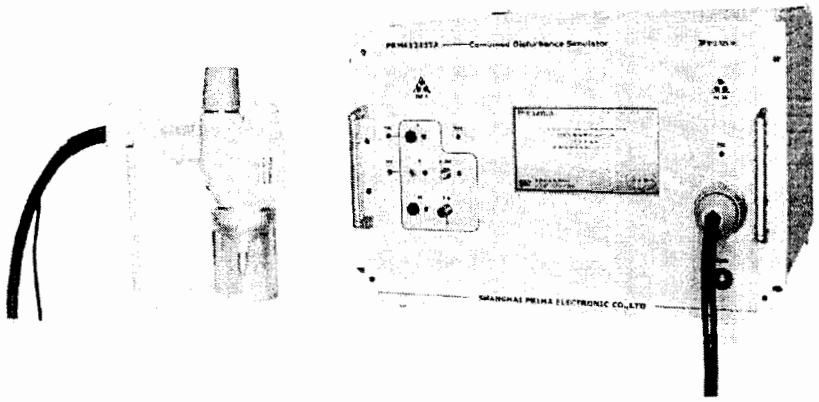
Поз. 1

Prima
普锐马电子 More than you think in EMC

5.2 IEC61000-4-2 & IEC61000-4-4 & IEC61000-4-5 Standard

Combined test simulator



Product introduce:

PRM61245TA is a multi-functional EMC tester which contains ESD, EFT and Lightning surge three functions,product complies with the latest standards IEC61000-4-2,IEC61000-4-4,IEC61000-4-5

Product characteristic:

- ESD, EFT, and SURGE, three functions combined into a single, more cost-effective
- Built-in international standards level parameters and user models parameters,very convenient
- Touch screen display, Intelligent control, Use the Programmable imported high-voltage power supply, Reliable performance
- Built-in intelligent couping/decoupling network. Testing safely
- Built-in the RS232 interface ,Remote operated by the optional control software

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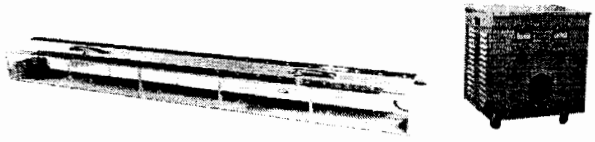
Technical parameters:

Model		PRM61245TA	PRM61245TB
As per standards		IEC61000-4-2 IEC61000-4-4 IEC61000-4-5	
ESD	Output voltage	0.2～± 20 kV ± 5% Positive / Negative	
	Testing functions	Contact discharge /Air discharge	
	Working form	Discharge interval 0.05 ～ 99.99s ， Testing form20PPS discharge： setting less than0.05s，be called single discharge	
	Discharge capacitor/Resistor	150pF /330 Ω (optional)	
	Current rise time	0.6 ～ 1ns	
EFT	Output voltage	0 ～± 4800V Positive/Negative//Switchable	
	Pulse frequency	1kHz～1200kHz ± 10%, adjustable	
	Resistor	50 Ω ± 20%	
	Rise time	5ns ± 30%	
	Impulse duration	50 Ω load	50ns ± 30%
		1k Ω load	35 ns～150 ns
	Number of burst	1～255	
	Burst period	300mS （ 0.15～9.99 S adjustable，step 0.01S ）	
	EUT coupling path		
SUG	Open -circuit voltage	Open -circuit t voltage: 1.2/50 μ s 0.2～ 6kV	
	short-circuit current	Short-circuit current 8 /20 μ s ， 0.1～ 3kA	
	Surge polarity	Positive / Negative/Switchable	
	Phase	Synchronism 0 ° ～ 360 ° selectable/Asynchronism	
	Output impedance	Complex impedance： 2 Ω 12 Ω	
	Coupling path	Built-in,1- phase three lines Max 16A	Built-out,3- phase five line max 16A
	Surge count	1～9999	
	Surge interval	10～9999s	
	Working power supply	AC220V 50/60Hz	

Accessories: EFT –Clamp & Isolation Transformer



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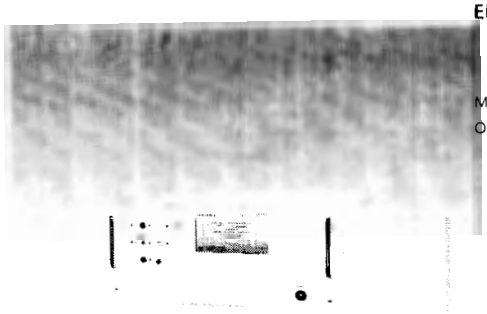
Products



EFT&Surge Combined Simulator

Briefly describe :

Meet EN/IEC61000-4-4 and EN/IEC61000-4-5 Standards. Two Functions In One.

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Description Parameters Configuration Download

EFT	Output voltage	0.2~ : 4.8KV (5KV) optional / Positive/Negative//Switchable
	Pulse frequency	1kHz~1200kHz ; 10%, adjustable
	Resistor	50 Ω; 20%
	Rise time	5ns ; 30%
	Impulse duration 50 Ω load	50ns ; 30%
	Impulse duration 1k Ω load	35 ns~150 ns
	Number of burst	1~255
	Burst period	300mS (0.15~9.99 S adjustable,step 0.01S)
SUG	EUT coupling path	Built-in,single phase three line AC220V,50/60Hz,max 16A
	Open-circuit voltage/short-circuit current	Open -circuit voltage 1.2/50 μs , 0.2~ 6kV
		Short-circuit current 8 /20 μ s ,0.1~ 3kA
	Surge polarity	Positive / Negative/Switchable
	Phase	Synchronism 0 ~360 selectable/Asynchronism
	Output impedance	Complex impedance: 2 Ω ! 2 Ω
		Option
	Coupling path	Built-in,single phase three line max 16A
	Surge count	1~9999
	Surge interval	10~9999s
	Working power supply	AC220V 50/60Hz

Last one : **ESD&EFT Combined Simulator** Next article : **ESD&Surge Combined Simulator** Return list>>

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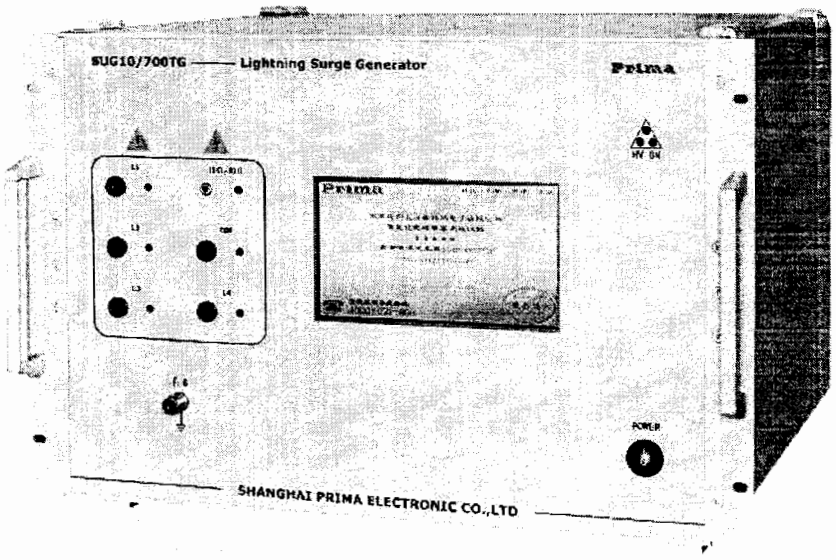
IEC61000-4-5 and ITU-T K.21 Standard Telcom lines surge tester



Product characteristic:

● Fully compliant with the latest standards of IEC61000-4-5 and ITU-T K.21 Standard

● Touch screen display, Intelligent control, Use the Programmable imported high-voltage power supply, Reliable performance

● Programmable operation by key setting

● Built-in international standards level parameters and user models parameters, simple

● Impulse injects the phase angle: asynchronous or 0-360 ° free to set

●The surge testing is fully automatic switching without human operation

● Built-in the RS232 interface ,Remote operated by the optional control softwar

Standard	IEC61000-4-5 &ITU-T K.20&K21
Open -circuit t voltage/short-circuit current	CCITT Open -circuit t voltage: 10/700μs Short-circuit current：5/320μs
CCITT Output impedance	15Ω±10%、40Ω±10%
Max. peak voltage range	0.2～±6kV (10KV 15KV OPTION)
Output polarity	Positive or Negative
Surge count	1～9999
Surge interval	10～999s（10s charging time）
Working power supply	AC 220V±10% 50/60Hz
Ambient temperature	10 ℃～35 ℃
Outline dimensions（D×W×H)	450×500×306mm^3
Weight	30kg

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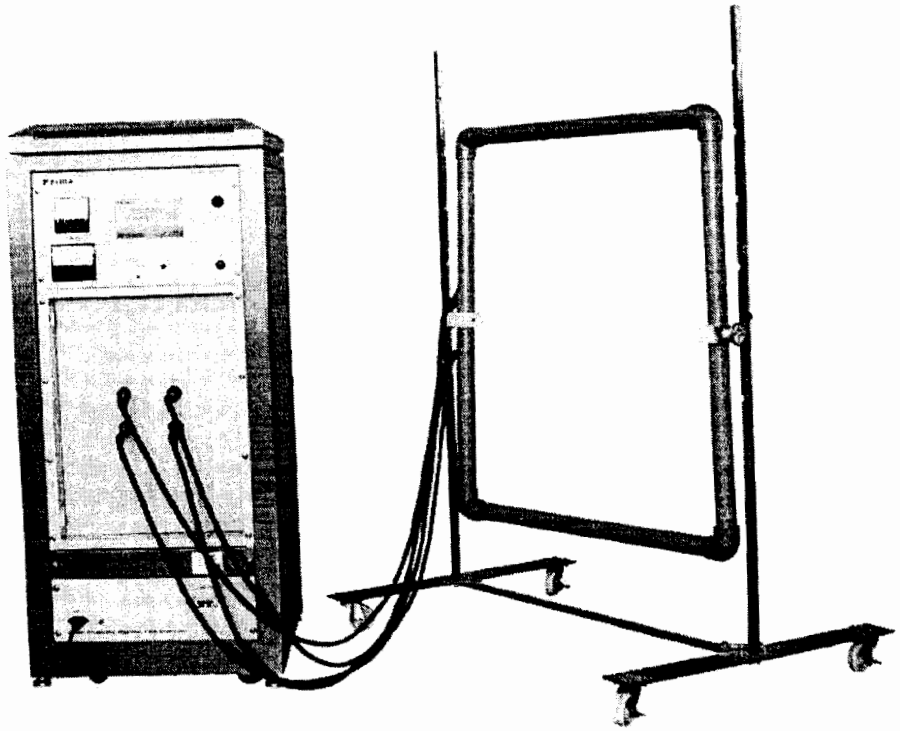
5.6 IEC61000-4-8 Standard Power frequency magnetic fields tester



Product characteristic:

- Full compliant with the latest standards of IEC61000-4-8
- Touch screen display, Intelligent control, stable performance
- Multiple output ports, convenient test
- The key components imported, more stable performance
- Software protection, without paying attention to the steps;
- Built-in the RS232 interface ,Remote operated by the optional control software.

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As per Standard		IEC61000-4-8
Max.magnetic field strength		1A/m ～ 1200A/m adjustable
Waveform of current		50Hz/60Hz， sine wave
interval		30s～999.9S
Current distortion factor		＜5%
Output current range	Current range(continuous)	1A ～ 100A，0.1S～999.9S9
	Current range(short)	100A ～ 1200A，0.1 ～ 5s
Method of operation		Automatic
Times		1-99
Working power supply		AC220V 50/60Hz
Ambient temperature		15 ℃～35 ℃
Weight		60kg
Outline dimensions		480*550*720 mm

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Prima EMC

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PRM61045TB

SOFTWARE MANUAL

1. Write purpose

In order to help users better understand and use the software, improve user and software affinity. The software briefly describes how to install and use the software, and the software should pay attention to the problems in the process of using.

2. Operating environment

This software supports computer operating system: XP SP3 and above operating system.

Please install WORD2003 or higher version, high version of the WPS is also available (for example: 2016 version).

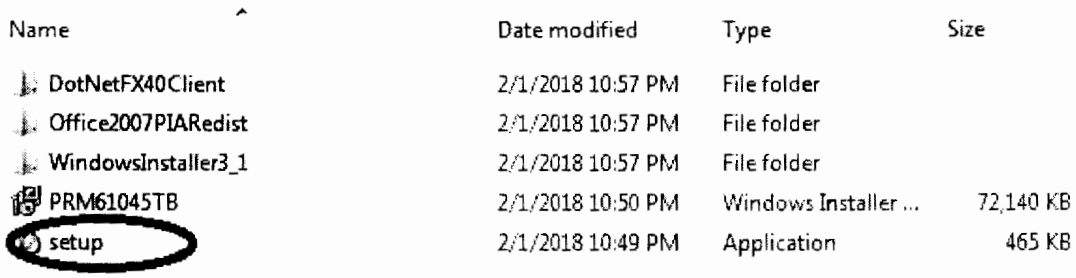
Supported resolution: not less than 1024 * 768 (Note: If you change the resolution, please re-open the software to take effect!).

Turn off the firewall when using the network port function.

3. Instructions for use

Software installation

Please find the following figure in the installation folder provided by the company and double-click the "Setup" program selected in the following figure, and then follow the prompts to install. After the installation is complete, you can find the program on the desktop to open.



Name	Date modified	Type	Size
DotNetFX40Client	2/1/2018 10:57 PM	File folder	
Office2007PIARedist	2/1/2018 10:57 PM	File folder	
WindowsInstaller3_1	2/1/2018 10:57 PM	File folder	
PRM61045TB	2/1/2018 10:50 PM	Windows Installer ...	72,140 KB
setup	2/1/2018 10:49 PM	Application	465 KB

2. Port settings

Serial port

Use a serial cable (you can also use USB to RS232) to connect the serial port of the computer to the serial port of the device.

Port number: COMX Baud rate: 19200

Parity: n Data bits: 8

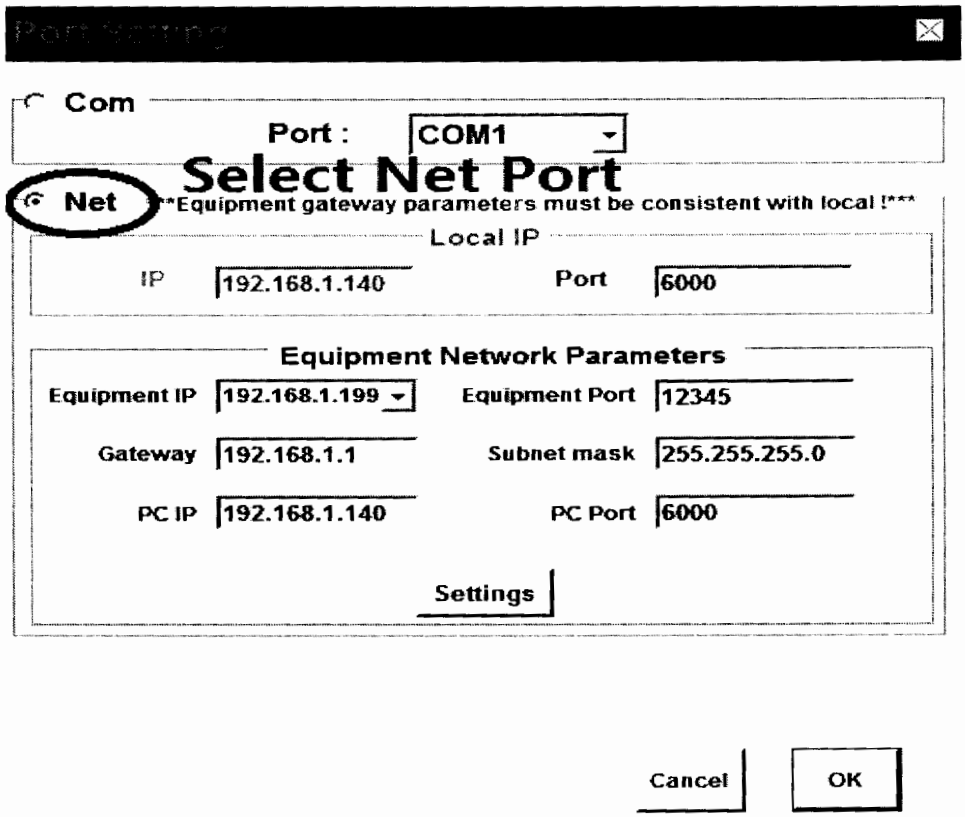
Stop bits: 1

Network port

Use a network cable to connect the device network port to the router or directly to the computer where the software is installed.

According to the local computer IP, port number, subnet mask and gateway to set the parameters of the network module.

The above settings as shown in the interface below:



3. software interface

After the software is opened, the interface is shown in the following figure (1) (In this example, the picture of SUG Series software is taken as an example, other types of software interfaces are similar to this example):

3.1 Select device

Select the device you want to test from the red "1" icon in the image below (1) or the top "Device Selection" menu.

3.2 Loading parameters

(1) If the parameter file has already been saved, you can load the test parameters by selecting your saved parameter file under the red labels "2" and "3" in the figure (1).

3.3 modify the parameters

(Voltage, for example, other parameters set the same way):

(1) You can change the voltage parameters by clicking the voltage parameter button labeled "5" in red in the figure (1).

(2) Double-click the place indicated by the red mark "6" in the figure (1), or change the voltage parameter by jumping out of the "voltage setting" box.

If step "voltage" is increased, the symbol of "7" marked by red in tl
followi ayed, otherwise, it will not be displayed.

3.4 Add / delete parameters

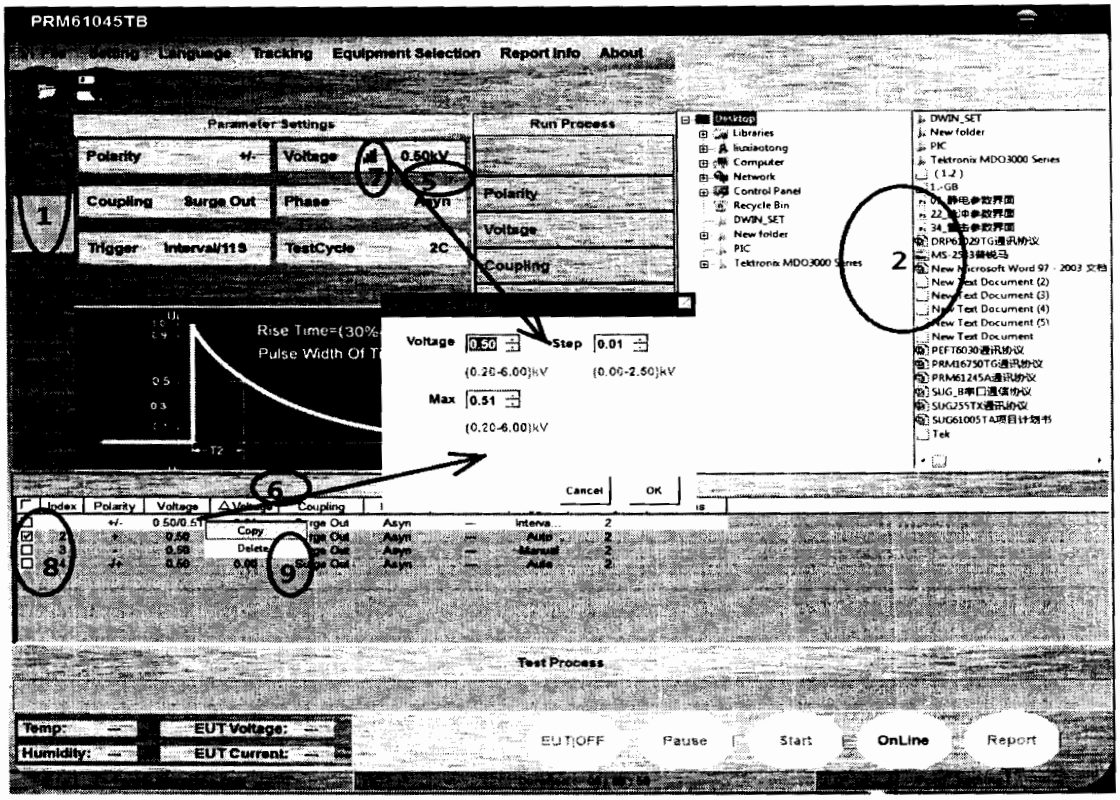
You can choose to add or delete parameters by right-clicking a row of parameters, and then in the following figure (1) red marked "9" box.

3.5 Save the parameters

(1) The current test parameters can be saved by clicking the button labeled "4" in red in Figure (1).

3.6 Select parameters

In the figure (1) red marked "8", by clicking the check box to check or cancel the method to choose which line parameters to be tested, which line parameters are not tested.



(1)

3.7 operating interface

(The figure below (2) for the operation of the completion of the interface)

Button Description:

Online / Offline: Click on the "Online" button marked "1" in red in Figure (2) and a corresponding message will appear on the red "6" in the image below. If not successful, then the button does not change, if the connection is successful, the button will become "offline" button. After the button is changed to offline, it will be clicked again. If it is offline, it will become the "online" button again, otherwise, the corresponding red label "6" will be prompted.

Star ction is successful, the button labeled "

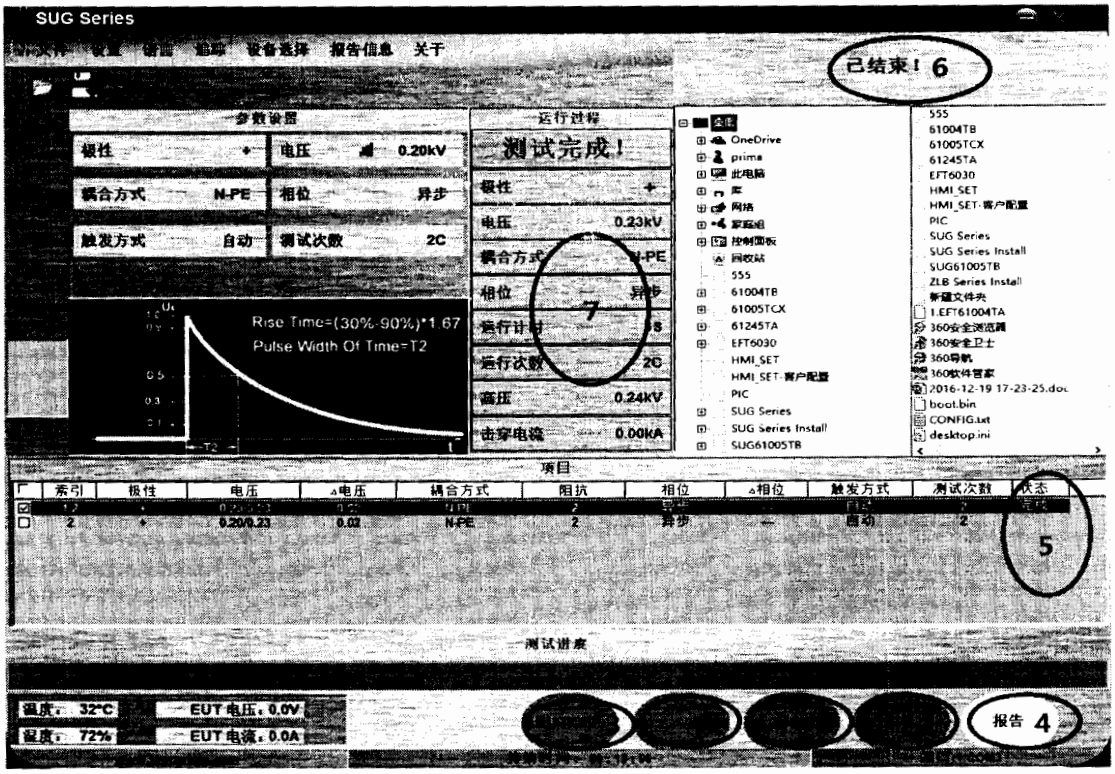
the red (2) below can be clicked, otherwise it will not work. Click the "Start" button, the software starts to run and monitor the device. During the running, if the "Start" button turns into "Stop" button in red font, you can stop the test by clicking the button in this state The button again returns to the "Start" button. During operation, the red mark "7" in the figure (2) below shows the current running parameters. If the parameter of the line is running successfully, the red mark "5" will be prompted to finish in the next figure (2). If the operation fails, it will prompt failure here. If the person stops the test, it will be prompted here. There will always be a message at the red mark "6". During the running process, if you click "Tracking" in the menu as shown in the figure (2), a message box will appear. The information you write will be displayed in the report corresponding to the parameter currently being tested.

EUT | OFF / ON: This button can be used after clicking the "Online" button, otherwise it will not work. In the figure (2) red button "3" at the button. The default is "EUT | OFF" button, this time indicates that the test power is off. If the button is clicked successfully, the button will be "EUT | ON", indicating that the power of the test item is turned on. In the red mark "6" there will be a corresponding prompt. If you click the button again, the button will be restored to "EUT | OFF", this time means that the test power is turned off again.

Pause / Continue: This button is available after clicking the "Start" button, otherwise it will not work. In the figure (2) red button "8" at the button. The default is the "pause" button, this time means that when running click on the button to pause the test. If the button is clicked successfully, the button will be "Continue" button. At this time, click the button to continue the test. In the red mark "6" there will be a corresponding prompt. If you click the button again, the button will be restored to the "pause" button.

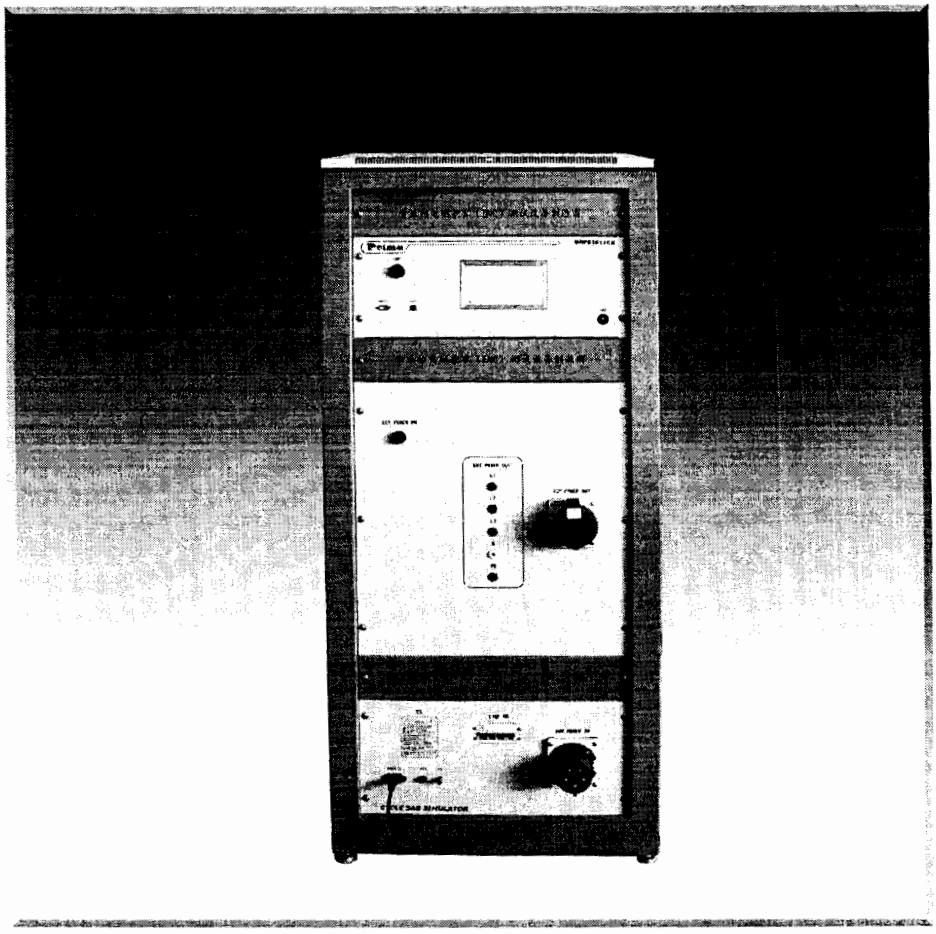
Report: The button marked "4" in red in the picture (2) below. After the current operating record, you can click the button to view the current test report, otherwise it is not.

Информацията в този документ е заличена на основание чл. 37 от ЗОП



（2）

IEC61000-4-11 /34 Standard AC Voltage dip& short interruption tester



Product introduce:

DRP61011 Series were designed for for voltage dips, short interruptions immunity test requirements and provide an assessment for the assessment of low-voltage grid connection of voltage dips, short interruptions interference. The products are fully compliant with the IEC61000-4-11 standard with intelligent, stable performance, easy operation features.

Product characteristic:

- Touch screen display, Intelligent control, stable performance
- Programmable design operated by a key setting function
- Built-in many user modes, programmable design, Easy to operate

Информацията в този документ е заличена на основание чл. 37 от ЗОП

● Built-in intelligent coupling/ decoupling network, Testing safety

Technical parameters:

IEC Standard	IEC61000-4-11/34
Level of voltage dips	0% ～ 120%
Dip duration	1～9999(half cycle)
Phase	Synchronism 0 °～ 360 °selectable/Asynchronism
Repetition time	1～60000
Dip interval	1～9999(half cycle)
Trigger mode	Automatic ， internal trigger
EUT power supply capability	Build-in,3 phase 5 lines CDN ,Max 30A
Working power supply	AC 220V 50/60Hz
Ambient temperature	15 ℃～35 ℃
Weight	60kg
Outline dimensions	44×43×120 cm

Информацията в този документ е заличена на основание чл. 37 от ЗОП

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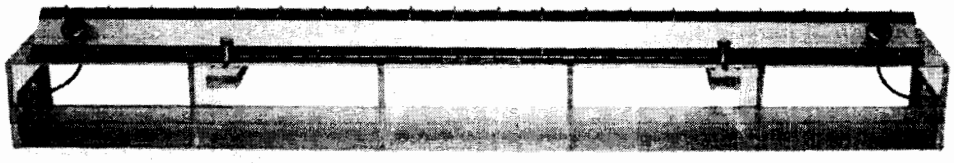
Accessories:



Coupling capacitance	100～1000pF
Insulating capability	＞5kV
Max Pulse voltage	7KV
EUT Cable	Diameter up to 40mm

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Информацията в този документ е заличена на основание чл. 37 от ЗОП

Prima 普锐马电子

Shanghai Prima Electronic Co.,LTD

To whom so ever it may concern

Our equipment offered to Rizov Machinery Ltd. will be produced as follows:

EFT/Surge combined simulator PRM61045TB
The EFT simulator has an output voltage up to 5 kV.
The simulator is equipped with a 300V/16A AC and DC CDN and appropriate adapters
The simulator is equipped also with a 5 line 3-phase CDN – 3 x 400V/ AC, 32A/phase, 5,5 kV test voltage and possibility for all combination for L1,L2,L3,N and earth
EFT - Clamp
The EFT – Coupling Clamp is designed for up to 40 mm cables.

PFM61008TG
The simulator includes the isolation transformer.
The coil is a metal strip and has dimension 1000 x 1000 mm and possibility for 0-180o rotation.
All simulators are operated and controlled by Prima-Software.

Load dump simulator Pulse5a5b(50V/30A) model ISO 7637 TP5
The simulator has a built-in DC CDN 50V 30 A and is software controlled

Any inconvenience please understand.

Yours Faithfully

Shanghai Prima Electronic Co.,LTD

Manager: Lightman Liu

Sign:

Date: June/19/2020