

Dear Client,

Thank you for purchasing our DDG-4000A Primary Current Injection Test Set. Please read the manual in detail prior to first use, which will help you use the equipment skillfully.



Our aim is to improve and perfect the company's products continually, so there may be slight differences between your purchase equipment and its instruction manual. You can find the changes in the appendix. Sorry for the inconvenience. If you have further questions, welcome to contact with our service department.



The input/output terminals and the test column may bring voltage, when you plug/draw the test wire or power outlet, they will cause electric spark. PLEASE CAUTION

RISK OF ELECTRICAL SHOCK!

🕒 **SERIOUS COMMITMENT**

All products of our company carry one year limited warranty from the date of shipment. If any such product proves defective during this warranty period we will maintain it for free. Meanwhile we implement lifetime service. Except otherwise agreed by contract.

🕒 **SAFETY REQUIREMENTS**

Please read the following safety precautions carefully to avoid body injury and prevent the product or other relevant subassembly to damage. In order to avoid possible danger, this product can only be used within the prescribed scope.

Only qualified technician can carry out maintenance or repair work.

--To avoid fire and personal injury:

Use Proper Power Cord

Only use the power wire supplied by the product or meet the specification of this produce.

Connect and Disconnect Correctly

When the test wire is connected to the live terminal, please do not connect or disconnect the test wire.

Grounding

The product is grounded through the power wire; besides, the ground pole of the shell must be grounded. To prevent electric shock, the grounding conductor must be connected to the ground. Make sure the product has been grounded correctly before connecting with the input/output port.

Pay Attention to the Ratings of All Terminals

To prevent the fire hazard or electric shock, please be care of all ratings and labels/marks of this product. Before connecting,

please read the instruction manual to acquire information about the ratings.

Do Not Operate without Covers

Do not operate this product when covers or panels removed.

Use Proper Fuse

Only use the fuse with type and rating specified for the product.

Avoid Touching Bare Circuit and Charged Metal

Do not touch the bare connection points and parts of energized equipment.

Do Not Operate with Suspicious Failures

If you encounter operating failure, do not continue. Please contact with our maintenance staff.

Do Not Operate in Wet/Damp Conditions.

Do Not Operate in Explosive Atmospheres.

Ensure Product Surfaces Clean and Dry.

— **Security Terms**

Warning: indicates that death or severe personal injury may result if proper precautions are not taken

Caution: indicates that property damage may result if proper precautions are not taken.

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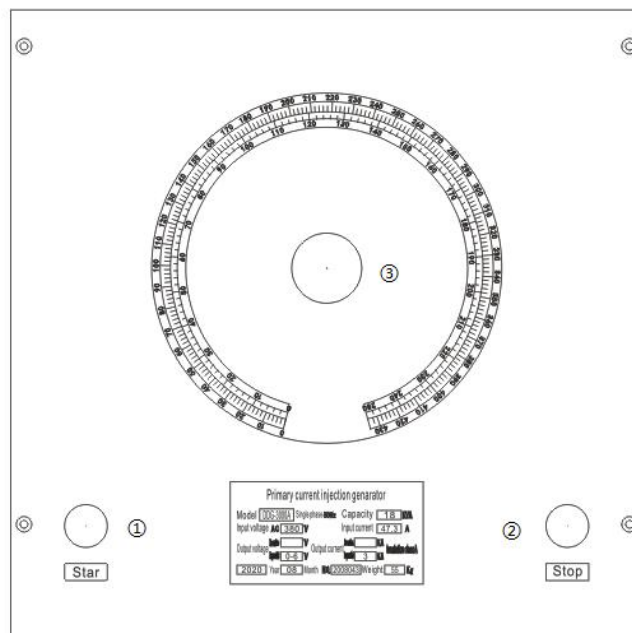
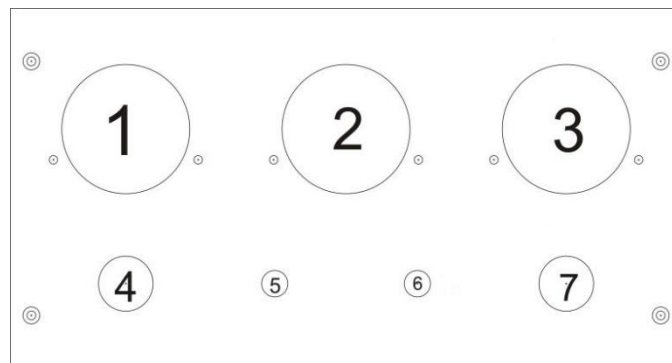
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I. Introduction

Primary Current Injection Tester is the necessary equipment in places of strong current. It is widely used in power plants, power distribution stations, electrical manufacturers, research institutes and other departments. The equipment has the characters of short-term or intermittent system, small size, light weight and easy maintenance and so on.

II. Structure

The product has full metal shell and aluminum-alloy panel combination with reasonable structure, elegant appearance, light weight and easy move.



- | | | |
|--------------------------|--------------------------|-------------------------------------|
| 1: Start Button | 2: Stop Button | 3: Current Regulation Handle |
| 4: Voltage Switch | 5: Current Switch | 6: switch on |
| 7: switch off | | |

III. Technical Parameters and Specifications

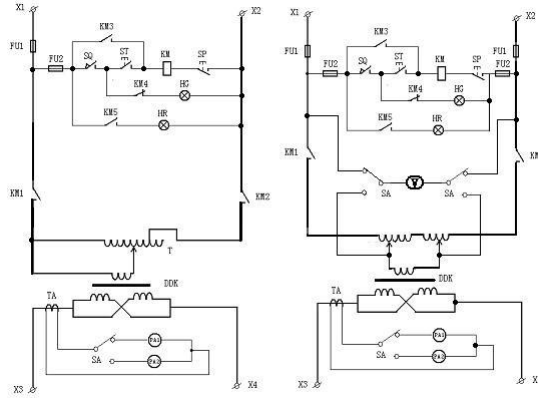
1. Input Voltage: 380V, single phase
2. Capacitance: 24KVA
3. Primary Voltage: 0-6V
4. Primary Current: 4000A,
5. Voltage/current accuracy: 1.5%
6. G.Weight/N.Weight: 102gks/90kgs
7. Packing (Plywoodcase) size: 500x720x865mm
8. Full load time should not exceed 5 minutes, continuous work time should be less than 2.5 minutes, but the working cycle should be more than 10 minutes.

IV. Instructions

- a) Connect the current amplifier with the tested product according to the testing requirements, and make sure that there's power supply. (For split type, connect the "input" on the panel with the power, the "output" with the "input" on DDK, and the "instrument" with the "instrument" on DDK.
- b) Select the position of Current Switch according to the needed current.
- c) Turn on the power, and the green light should be on (if not, turn the Voltage Switch counterclockwise to zero until the green light is on). Press the Startup Button, the green light should be off and the red light is on. Turn the Voltage Switch clockwise until the current rises to the needed level.
- d) Turn the Voltage Switch counterclockwise to zero, press the Stop Button, the red light is off and the green light is on. The testing is over.

V. Electrical Diagram

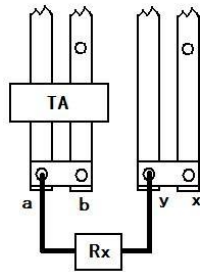
1. Diagram of Current Generator



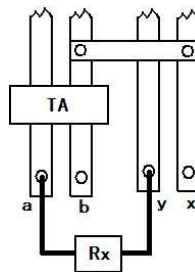
Current Amplifier Sketch
Sketch (Below 1000A)

Current Amplifier
(Above 1000A)

2. Output copper wires connection method at open-backed door:



Connection in Parallel



Connection in Series