



## GDCL series Impulse Current Test System



### Product Description

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The Impulse Current Generator Is Used To Inspect The Capacity Of Electric Equipment Withstand Strong Impulse Current.

It Is Widely Used In Lightning Arrester And Shock Wave Anti-Interference Test Of Electric And Electronic Equipment Under Their Running Conditions And Used In Other Research Project.

This Instrument Can Generate Standard Impulse Waveforms Such As:  $1/\lt;20\mu\text{S}$  ,  $4/\lt;10\mu\text{S}$  ,  $8/20\mu\text{S}$  ,  $10/350\mu\text{S}$  ,  $18/40\mu\text{S}$  And  $10/1000\mu\text{S}$ . The Waveform Technical Meet The Requirement Of National Standards And IEC Standards.

## Features

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- Touch screen display.
- Current measured by rogowski coil and residual voltage measured by voltage divider or HV probe, while the wave form recorded by oscilloscope.
- Charging mode is constant current and discharging mode is lower spherical cylinder push triggering, phase-shift triggering or three electrodes ignition.
- Phase-shift accuracy is up to  $\pm 1$  degree within a range of 0-360 degree, excellent in its synchronization performance and reliable in motion.
- With functions of over-voltage ,over current detection, door open or close automatically and automatic ground.
- PC data management with digital measurement and control system. Optical fiber isolation communication.
- PLC control unit.
- Suitable wave-adjustable inductance and resistor inside, which is convenient combination of various wave-forms, achieving one unit serving multiple purpose.

## Specifications

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1. Wave form is selected according to customers' requirements.

- 2000 $\mu$ S square wave impulse current amplitude value:  $1.5\text{kA}\pm 5\%$
- $1/\lt 20\mu$ S gradient wave impulse current amplitude value:  $20\text{kV}\pm 5\%$
- 4/10 $\mu$ S impulse current amplitude value:  $200\text{kA}\pm 5\%$
- 8/20 $\mu$ S lightning impulse current amplitude value:  $40\text{kV}\pm 5\%$
- 30/80 $\mu$ S operate impulse current amplitude value:  $2\text{kA}\pm 5\%$
- 18/40 $\mu$ S impulse current amplitude value:  $20\text{kA}\pm 5\%$
- 10/1000 $\mu$ S impulse current amplitude value:  $200\text{kA}\pm 5\%$

2. Rated voltage:  $\pm 60\text{kV}$ ,  $\pm 120\text{kV}$
3. Output current: up to  $200\text{kA}$