



GDYZ-302 Wireless Zinc Oxide Surge Arrester Tester



General Information

GDYZ-302 Zinc Oxide Arrester Live Tester is a special instrument used to test the electrical performance of Zinc Oxide Arrester. It is suitable for live or power-off detection of Zinc Oxide Arrester of various voltage levels, so that to find dangerous defects such as dampness of internal insulation and aging of valve plates in time.

The instrument is simple to operate and easy to use. The whole measuring process is controlled by industrial computer. It can measure the full current, resistive current and harmonics, power frequency reference voltage and harmonics, active power and

phase difference. The real waveform of voltage and current can be displayed on the large screen. The instrument uses digital waveform analysis technology and software anti-interference methods such as harmonic analysis and digital filtering to make the measurement results accurate and stable. It can accurately analyze the content of fundamental wave and third to seventh harmonics, overcome the influence of inter-phase interference, and correctly measure the resistive current of side-phase arrester.

Features

- 800 *480 color LCD touch screen, high-speed thermal printer; graphics and text display, intuitive interface, easy for field personnel to operate and use.
- Wireless transmission of PT signal is over 400 meters, which can reach 2000 meters on demand.
- It is suitable for live arrester, power off arrester or laboratory test.
- Really achieve three-phase current and three-phase voltage measurements at the same time, improve work efficiency; the instrument only has weak internal current, voltage does not exceed 12V; current and voltage sensors are completely isolated, safe and reliable.
- The leakage current of zinc oxide arrester can also be measured without counter, which completely solves the test problem of 6 ~ 10KV arrester.
- It supports both wired synchronization and wireless synchronization for voltage reference signal sampling, and also supports non-voltage mode for finding voltage reference through software calculation.
- With high performance and large capacity lithium-ion batteries, it is especially suitable for power-free applications.

- The instrument adopts embedded hardware platform and embedded operating system, which can expand audio and video playing function and game entertainment function.
- The instrument can be switched on and off at any time, which is more stable than the instrument based on industrial computer, and is not easy to crash and collapse.
- Software functions can be expanded anytime, anywhere according to customer requirements.
- It is equipped with a USB interface to support U-disk data export. It can be used with USB mouse and keyboard, and it is easy to operate.
- The SD card with 4 GB capacity can store a large amount of test data, and has the functions of data management and storage.
- Supporting PC management software, with historical data management, data analysis, report printing and other functions.
- High-speed sampling frequency, advanced digital signal processing technology, strong anti-interference performance, high accuracy of measurement results.
- Dust-proof, waterproof and anti-corrosion engineering plastic sealed box is adopted, which is small in size, light in weight and easy to carry.

Specification

Power supply	Supporting external power adapter (12V/2A) and internal battery
Measurement range	Leakage current(peak value) : 0~ 10mA (Extensible) Voltage(peak value) : 30-100V(Extensible)
Measurement accuracy	Current: $\pm 2\%$ reading ± 1 digital at full current $> 100 \mu\text{A}$ Voltage: $\pm 5\%$ reading $+1$ digital at reference voltage signal $< 30\text{V}$: Voltage: Reference voltage signal $> 30\text{V}$: Wire mode: $+2\%$ reading $+1$ digital; Wireless mode: $+5\%$ reading $+1$ digital;
Measurement parameters	Full current waveform, fundamental RMS and peak value of leakage current; The fundamental wave RMS of leakage current resistive component and RMS of 3, 5 and 7 times; Leakage current resistance component peak value: positive peak I_r + negative peak I_{r-} ; Capacitive current fundamental wave, full voltage, full current phase angle difference; Voltage RMS; Arrester power consumption;

Sampling method of voltage reference signal	Wire Synchronization: 40m (Extensible) Wireless Synchronization: > 400m (Extensible)
Battery	Charging time: > 6 hours Continuously working time: > 4hours Interval working time: > 8 hours
Dimension	Main unit: 36cm*26cm*14cm Accessories box: 42cm*33cm*20cm
Weight	Main unit: 5.0kg , Accessories box : 9.0kg