



GDYZ-301A Zinc Oxide Surge Arrester Tester



I. Product Description

GDYZ-301A Automatic Zinc Oxide Surge Arrester Tester contains below three functions:

Resistive current test;

Current meter calibration of monitor;

Counter action test of monitor.

It is the special equipment of testing zinc oxide electric performance. The instrument can accurately and stably measure the arrester resistive current and the monitor counter action parameters while the equipment is running. It can also check the monitor ammeter.

II. Features

1. 8-inch color LCD touch screen, high speed thermal printer.

2. The measurement data of wire and wireless is the same.

3. Wireless sampling, with long distance.

A. Wired: indoor use, or onsite where the PT sampling wiring cabinet is near with tested lightning arrester.

B. Wireless: outdoor use, or onsite where the PT sampling wiring cabinet is far from tested lightning arrester, wireless distance is up to 1000M.

4. Three-phase can be measured at the same time. The resistive current of 3 channels can be measured at the same time, meanwhile, there are two interference modes, 1) no interference: the inter-phase angle cannot be calculated and corrected automatically under this mode;2) With interference: the inter-phase interference angle can be calculated and corrected. Only one time connection to finish measurement of ABC phase.

5. Built-in high capacity Li-battery, suitable for no power supply field.

III. Technical Parameters

Use condition	-20°C- 50°C	RH<80%
Charging power supply	AC 220V±10%	
Input range of PT reference voltage	0-300V	
Input resistance of voltage channel	≥150kΩ(with fuse)	
Measuring accuracy of PT reference voltage	±(2% of the reading+0.5V)	
Measuring range of current input	0-10mA	
Measurement accuracy of current fundamental	±(2% of the reading+5μA)	

Measurement accuracy of current harmonic	$\pm(5\% \text{ of the reading} + 10\mu\text{A})$	
Input resistance of current channel	$\leq 1\Omega$	
Measurement range of electric field strength	30kV/m ~ 300kV/m	
Accuracy of electric field strength	$\pm 10\% \text{ of the reading}$	
Action times of monitor	0~99 times	
8/20 μ S impulse current	$\geq 50\text{Ap}$	
Calibration range of current meter	0-10mA	
Calibration accuracy of current meter	$\pm(2\% \text{ of the reading} + 5\mu\text{A})$	
Measurement resolution	Voltage	0.001 V
	Current	0.001 mA
	Angle	0.001°
Battery working time	Main unit 8 hours, voltage sampling box 12 hours	
Wireless transmission distance	1000 meters and above(empty and Unobstructed)	
Dimension of main unit	320*270*140 mm	
Hand-held collection probe	180*120*80 mm	
Weight of main unit	4 kg (without accessories)	