

RDYZ-302 Metal Oxide Surge Arrester Analyzer

RDYZ-302 Metal Oxide Surge Arrester Analyzer is a special instrument designed for live detection of metal oxide arrester in power system. It can measure the AC leakage parameters of the equipment in the running state, so as to timely find out the



dangerous defects such as moisture in the internal insulation of the equipment and the aging valve plate. By accurately sampling the voltage and current signals of the measured equipment, the metal oxide surge arrester analyzer adopt anti-interference methods such as Fourier transform technology, harmonic analysis and digital filtering to make the measurement results accurate and reliable.



Product features

1. Fully automatic instrument, one wiring can measure three-phase data at the same time, or single-phase data separately.
2. It has the function of harmonic analysis and can accurately analyze the content of fundamental wave and 3rd, 5th and 7th harmonics.
3. Anti interference function to ensure accurate and reliable data.
4. Voltage phase selection function. The voltage signal can be connected to any phase A, B and C.

5. Angle compensation function (when the voltage signal is 220V).
6. 8.0-inch color touch LCD screen can display three-phase data and waveform at the same time.
7. AC / DC dual-purpose, built-in high-capacity lithium-ion battery, one charge can work continuously for about 6 hours.
8. There are three measurement methods: wired, wireless and no Pt, which support the signal acquisition of 220V maintenance power supply.
9. RS232 serial communication; USB interface
10. Wireless data transmission eliminates the tedious work of long-distance wiring of voltage measurement lines and reduces labor intensity;
11. Humanized menu design, friendly man-machine interface, simple operation, and the switching function of Chinese and English interface;
12. Storage function: the instrument can save 200 groups of test data, and the saved data can be exported by USB flash disk;
13. Small size, light weight, easy to carry, suitable for field operation.



Product specifications and technical parameters



Model.No	RDYZ-302
Measuring range	0 ~ 50 mA
Measurement accuracy	
Wired mode	fundamental: $\pm (\text{reading} \times 2\% + 2 \text{ words})$, harmonic: $\pm (\text{reading} \times 10\% + 5 \text{ words})$
Wireless mode	fundamental: $\pm (\text{reading} \times 5\% + 5 \text{ words})$, harmonic: $\pm (\text{reading} \times 10\% + 10 \text{ words})$
Resolution	0.001 mA
Measurement parameters	
Full current waveform and fundamental peak value of leakage current.	
The fundamental peak value and the 3rd, 5th and 7th peak value of the resistive component of leakage current.	
Capacitive current fundamental peak value, full voltage, full current phase angle difference.	
Effective value of voltage	
Power consumption of lightning arrester	
Voltage signal input	30 ~ 250V
Maximum wireless transmission distance	400m (sight distance)
Ambient temperature	- 10 °C ~ 40 °C
Ambient humidity	< 90% RH



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