

Wuhan HTDW-3A Ground Network Earth Resistance Tester



I. Introduction

Currently in the power system, it is mainly used frequency large current three-pole measurements to test the ground network earth resistance. In order to prevent frequency interference generated by the power grid operation, to improve the accuracy of the measurement results, insulation preventive test code states: the test current of frequency large current method shall not be less than 30A. Thus, the test equipment is too heavy; the test process is complex; large work strength, long test time and many other issues.

Ground Network Earth Resistance Tester adopts the new variable frequency AC power, and take advantage of computer processing control and signal processing, to solve the interference problem of testing process, simplifying the test operation process, improve the precision and accuracy of test results, greatly reduce the labor intensity and testing costs.

II. Features

1. Good frequency equivalence. The measured current waveform is sine wave, the difference between frequency and power frequency is 5Hz, use 45Hz and 55Hz two frequency to test.
2. Strong anti-jamming ability, use different frequency method , assorted with modern hardware and software filtering techniques, make the device with strong anti-jamming ability, test results stable and reliable.
3. High precision, intrinsic error 0.005Ω , can test the ground network of small impedance.
4. Powerful: can test current pile, voltage pile, ground resistance, pace voltage, contact voltage.
5. Easy to operate, menu operated, directly display the test results.
6. Do not need high current wire.

III. Parameters

Impedance measurement range	0~200Ω
Resolution	0.001Ω
Measurement error	$\pm(\text{reading} \times 2\% + 0.005\Omega)$
Maximum output voltage	AC 400V (45Hz、55Hz, double frequency, sine wave)

Maximum output current	AC 3A (45Hz、55Hz, double frequency, sine wave)
Current output gear	3/2.5/2/1.5/1A
Anti-jamming capability	Anti- frequency 50Hz voltage 10V
Measured wire required value	Section surface of current wire copper core \geq 1.5 mm ² Section surface of voltage wire copper core \geq 1.0 mm ²
Power supply	AC 220V \pm 10%, 50Hz
Dimension	295x340x310mm ³
Weight	28kg

IV. Accessories

