

## Wuhan HT2571 Earth Resistance Tester



### I. Introduction

The instrument applies to power industry, post and telecommunications, railway, communications, mining and other sectors to measure the grounding resistance of the various devices and the conductor resistance of low resistance; this instrument can also measure soil resistivity and ground voltage.

The instrument is a newly developed earth resistance tester, which abandons the traditional way of generating electricity by hand operation, uses advanced middle-large scale integrated circuits and applies DC/AC transformation technology to combine three-terminal measurement method and four-terminal measurement method into one model..

### II.Features

- 1.High-strength aluminum alloy shell body, the circuit equipped with phase locked loop and switched capacitor filter, based on which the instrument play an effective role in shielding power frequency and radio frequency interference.
- 2.DC/AC converter can transform DC current into AC low-frequency constant current for the measurement.
3. Auxiliary grounding resistance can change in the range of 0 ~ 1.8K $\Omega$  (RC), 0 ~ 40K $\Omega$  (RP), that will not affect measurement results.
- 4.Without manual adjustment to zero, with three and a half bits LCD display, the instrument can be used for measuring the grounding resistance, the conductor resistance of low resistance, soil resistivity and AC ground voltage. If tested loop encounter failure, the screen displays "1" indicating large range, which consistent with conventional measurement practices.

### III. Parameters

Operating Conditions	Temperature	0°C~+45°C
	Relative humidity	≤85%RH
Measuring range and constant current value (virtual value)	resistance	0~2Ω(10mA), 2~20Ω(10mA), 20~200Ω(1mA)
	voltage	AC0~19.99V
Measurement accuracy and resolution	accuracy	0~0.2Ω≤±3%±1d
		0.2Ω~199.9Ω≤±1.5%±1d
		1~19.99V≤±3%±1d
resolution	0.001Ω、0.01Ω、0.1Ω、0.01V	
Measurement errors caused by auxiliary grounding resistance and ground voltage	Auxiliary grounding resistance	RC (between C1 and C2)
		0~2Ω, 2~20Ω≤1KΩ
		20~200Ω≤2KΩ
	RP (between P1 and P2) <40KΩ error ≤ ± 5%	
Ground voltage (frequency virtual value)	≤ 5V error ≤ ± 5%	
Power supply and power dissipation	Maximum power dissipation	≤2W
	DC	8×1.5V(AA, R6) battery
	AC	220V/50Hz
Dimensions and weight	Dimension	220×200×105mm3
	Weight	≤1.4kg

#### **IV. Accessories**





Ground Anchor



Battery



manual, report, certificate