

Wuhan HTDR-H Automatic Capacitance Bridge Tester



I. Introduction

HTDR-H adopts a new generation of high-speed mixing microprocessors, highly integrated, simultaneous collect the tested objects' voltage signals and current signals, automatically calculate the capacitance value, the inductance value and reactive power value. Field measurement capacitor without removing the connecting wire, simplifying the testing process, improve efficiency and avoid damage to electrical equipment. After finished the test, automatically calculate capacitance value of each phase and other parameters, can easily distinguish the capacitor quality and connecting conductors faults among components. At the same time, the instrument with data storage and USB communication functions, can ensure the measuring data integrity.

II. Features

1. Instrument equipped with high-current high-precision current clamp, field measurement capacitor without removing the cable, simplifying the testing process, improve efficiency and avoid damage to electrical equipment.
2. After the three-phase test is completed , automatically calculate the capacitance value of each phase and the total capacitance value , reactive power and other parameters, simple and intuitive , reducing the burden on the tester.
3. Four-terminal measurement: The four-terminal measurement techniques, measurement accuracy, repeatability good
4. Automatic Compensation: current automatic segmentation compensation, current full scale linearly, improve measurement precision
5. Storage features: Max Storage 400 instrument data, historical data query capabilities.
6. USB communication: USB communication functions with the PC.
7. Large Touch Screen: 7-inch color touch -screen LCD display, intuitive interface, easy to operate.
8. Temperature monitoring: monitor ambient temperature, easy to record values of capacitors at different temperatures.

III. Parameters

Capacitance measurement range and accuracy	Capacitance measurement range : 0.1uF~3300uF
	Accuracy : \pm (reading $\times 1\% + 0.005\text{uF}$)
	Resolution : 0.001uF
Power supply and Test Power	Power supply : AC 220V $\pm 10\%$, 50Hz
	Output voltage (open circuit) : AC 23V $\pm 10\%$, 50Hz (capacitance)
	Maximum output current : 20A
	Output short circuit protection: Automatic
Working conditions, dimension and weight	Temperature : -10°C~+40°C ; relative humidity : $\leq 90\%$
	Dimension (host) : 400 \times 290 \times 175mm ; weight : 9.5kg
	Out case dimension : 340 \times 260 \times 135mm ; weight : 3.6kg