

HF-SA-201

Metal Oxide Arrester DC Parameter Tester



This Metal Oxide Arrester DC Parameter Tester is professionally applied to test core DC indicators of surge arresters, including U_{1mA} voltage and leakage current. It effectively checks internal insulation degradation and potential defects. With strong anti-interference capability and portable layout, it fits field maintenance and periodic preventive tests in various substations perfectly.

Technical specifications

Parameter	Value
Accurate & Repeatable Measurement	Based on hardware and software automatic control theory, it performs precise closed-loop regulation for 1mA current and 0.75 times DC reference voltage, so as to acquire stable DC reference voltage at 1mA current and leakage current under 0.75 times reference voltage.
One-Click Automatic Measurement	Controlled by a high-speed processor, the device automates complicated manual adjustment procedures. Simply press the measurement key, and it will automatically test the DC reference voltage at 1mA and leakage current at 0.75 times reference voltage within only 7 seconds, ideal for field testing work.
Comprehensive Multi-Layer Safety Protection	Equipped with overvoltage protection and battery undervoltage protection to fully guarantee operator safety. High voltage output is only available during testing; high voltage will be automatically cut off once measurement finishes. Residual voltage across the arrester is displayed in real time, and operators can only disconnect the device after residual voltage drops to a safe level.
Real-Time Measurement Display	It continuously displays 1mA current, U_{1mA} voltage, leakage current at $0.75U_{1mA}$ and residual voltage throughout the testing process. All measured values are clearly presented on the liquid crystal screen once testing completes.
Automatic Qualification Judgment	It can automatically judge whether various types of arresters are qualified. Threshold values of U_{1mA} voltage and $0.75U_{1mA}$ leakage current are configurable, with default parameters set for 10kV arresters.
Waterproof & Wear-Resistant Cabinet	Adopts fully enclosed hand-held waterproof protective casing.
Color Touch Screen Display	Equipped with a 5-inch 854*480 resolution capacitive color touch screen, enabling clear data viewing under all lighting conditions.
Data Printing & Storage	Stores up to 500 groups of test records. On-site and historical data can be printed directly or exported to a USB flash drive in TXT format.
Additional Functions	Built-in calendar & clock, battery voltage indication, ambient temperature and humidity detection.
Backlight & Standby Configuration	Adjustable backlight contrast, standby brightness and standby time settings are available.
Charger Input Voltage	AC 100V~240V, 50/60Hz
Maximum Output Voltage	35kV
Maximum Output Current	1.2mA (at 30kV)
Maximum Output Power	36W
Voltage Measurement Accuracy	$\pm 0.5\%FS \pm 2$ digits
Minimum Voltage Resolution	0.01kV
Current Measurement Accuracy	$\pm 0.5\%FS \pm 2$ digits
Minimum Current Resolution	0.1uA

Parameter	Value
Voltage Ripple Factor	1%
Power Supply	Built-in lithium battery pack, 37.8V, 3200mAh
Operating Ambient Temperature	-10°C ~ +50°C
Relative Humidity	≤85% (25°C)
Overall Dimensions & Weight	375mm×310mm×155mm, 5.7kg (with all accessories)

Standard scope of supply

No.	Item	Qty	Notes
1	Main Tester Unit	1 Set	Core testing host
2	High Voltage Test Cable Assembly	1 Set	High voltage connecting wires for arrester testing
3	Grounding Wire	1 Pc	For reliable earthing connection
4	Power Charger Adapter	1 Pc	AC 100-240V universal charger
5	USB Flash Drive	1 Pc	For exporting test data in TXT format
6	Printed Operation Manual (English Version)	1 Copy	Detailed operation & technical guide
7	Factory Calibration Certificate	1 Copy	Metrological calibration document
8	Waterproof Shockproof Carrying Case	1 Pc	Integral packaging box for portable storage & transportation
9	Spare Fuse	2 Pcs	Consumable spare parts
10	Inspection Packing List	1 Copy	For customs clearance & receiving check

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.