

HF-MT-501

Secondary Circuit Voltage Drop Tester



The Secondary Circuit Voltage Drop Tester accurately detects voltage attenuation of current and voltage transformer secondary circuits. It judges circuit connection faults, ensures metering precision and safe operation of power measurement systems.

Key features

- Operates independently as a three-phase volt-ampere phase meter.
- No GPS module required, eliminating prolonged satellite searching caused by bad weather or high-rise shielding.
- No temporary cables needed between the watt-hour meter and PT terminal, preventing PT secondary short-circuit faults resulting from cable insulation defects or improper operation.
- Adopts wireless communication to avoid interference to secondary measurement loops caused by carrier communication, which may compromise energy metering accuracy.
- Supports both single-phase and three-phase measurement modes.

Technical specifications

Parameter	Value
Model	HF-MT-501
Test Application	CT/PT secondary voltage drop measurement
Operating Power Supply	AC 185V□250V
Frequency	50/60Hz
Input Power	40VA
Connector	Standard DC plug
Ratio Error Measuring Range Measurement Accuracy Resolution	0.001□99.9% X□±(1%×reading□1%×Y±0.02%) 0.001%
Phase Error Measuring Range Measurement Accuracy Resolution	0.01□999.9 angular minutes Y□±(1%×X□1%×Y±0.5 angular minutes) 0.01 angular minutes
Voltage Measuring Range Measurement Accuracy Resolution	5□600V 0.5%×reading±5 digits 0.1V
Current Measuring Range Measurement Accuracy Resolution	0.001□6A (expandable) 0.5%×reading±5 digits 0.0001A
Active Power Measuring Range Measurement Accuracy Resolution	0.005□3600W 0.5%×reading (PF=1) 0.1W
Reactive Power Measuring Range Measurement Accuracy Resolution	0.005□3600Var 0.5%×reading (PF=0) 0.1Var
Frequency Measuring Range Measurement Accuracy Resolution	45□65Hz ±0.02Hz 0.01Hz
Phase Angle Measuring Range Measurement Accuracy Resolution	0□360° ±0.1° 0.1°
Ambient Conditions Operating Temperature Storage Temperature Humidity	-20°C□+50°C -20°C□+50°C 5%□95% RH, non-condensing
Physical Dimensions Handheld Terminal (2 sets) Outer Packaging Case (2 sets)	135×240×55mm 390×290×105mm

Parameter	Value
Weight Single Handheld Terminal (2 sets, excluding accessories) Total Weight (2 sets, with accessories)	1kg 2.5kg

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.