

HF-IT-203

Current Transformer Calibrator



This portable Current Transformer Calibrator is designed for on-site verification of current and voltage transformers. It adopts advanced variable frequency anti-interference technology, needs no extra auxiliary devices, delivers high-precision error testing and supports data storage and report output for power system calibration work.

Key features

- Powered by near-power-frequency variable-frequency source to avoid interference from on-site power-frequency electromagnetic radiation and series coupling disturbance.
- Ultra-wide measurement range: covers ratios from 5A/5A up to 25000A/5A, and 5A/1A up to 6300A/1A.
- Supports CT transformation ratio detection and secondary winding DC resistance measurement.
- Fitted with 800×600 high-resolution large LCD touch screen; humanized interface and touch control make operations simpler and faster.
- Optimized advanced software algorithm ensures higher precision of measured data.

Technical specifications

Parameter	Value
Transformation Ratio Test Range	5A/5A ~ 25000A/5A□5A/1A ~ 6300A/1A
CT Operating Test Range	1% ~ 200% of rated current
Secondary Burden	0 ~ 300VA, Power factor cosφ = 0.1 ~ 1.0
Supported CT Accuracy Classes	1.0□0.5□0.5S□0.2□0.2S
Resistance & Admittance Measuring Error	≤5.0%
Resistance Measurement Range (R)	0.00ohm ~ 20.0ohm
Admittance Measurement Range (Y)	0.000mS ~ 100.0mS
Built-in Calibrator In-phase Component Error	ΔX=±(X×2%+Y×2% ± 2 digits)
Built-in Calibrator Quadrature Component Error	ΔY=±(X×2%+Y×2% ± 5 digits)
Error Formula Annotation	X,Y: Instrument display values Digits: Instrument quantization error
Percentage Meter Accuracy	Class 1
Ratio Error Measuring Range (f)	0.0000% ~ 200.0%
Phase Error Measuring Range (δ)	0.000' ~ 999.9'
Total Power Consumption	20VA
Instrument Overall Accuracy Grade	0.05S
Overall Dimensions	460mm(L) × 375mm(W) × 183mm(H)
Total Weight	Main body: 11kg□Accessories: 3.5kg

Standard scope of supply

No.	Item	Qty	Notes
1	Current Transformer Calibrator Main Unit	1 Set	0.05S high precision grade
2	Special Test Connecting Cables	1 Set	For CT on-site calibration
3	220V AC Power Cord	1 Pc	Power supply connection

No.	Item	Qty	Notes
4	User Manual (English & Chinese)	1 Copy	Complete operation guide
5	Factory Calibration Certificate	1 Copy	Official metering qualification
6	USB & RS232 Communication Cable	1 Set	For data export and report printing
7	Shockproof Protective Carrying Case	1 Pc	Convenient for field transportation
8	Spare Fuses	2 Pcs	Standby replacement parts

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.