

HF-IT-201

Instrument Transformer Calibrator



The Instrument Transformer Calibrator is professional equipment for calibrating current and voltage transformers. It measures in-phase, quadrature components, impedance and admittance with high precision, applicable to both on-site power inspection and laboratory verification work.

Technical specifications

Parameter	Value
Ambient Conditions	Temperature 5°C ~ 40°C
Relative Humidity	≤80% (at 25°C)
Altitude	≤2500m
Power Supply Frequency	50Hz ± 0.5Hz
Power Supply Voltage	220V ± 5V
Measurement Range	In-phase Component (%) 0.0001 ~ 200.0, Resolution: 0.0001
Quadrature Component (minute)	0.001 ~ 700.0, Resolution: 0.001
Impedance (ohm)	0.0001 ~ 20.0, Resolution: 0.0001
Admittance (mS)	0.0001 ~ 20.0, Resolution: 0.0001
Basic Error	In-phase Component $\Delta X = \pm (X \times 1\% + Y \times 1\%) \pm D_x$ (Class 1 optional)
Quadrature Component	$\Delta Y = \pm (X \times 1\% + Y \times 1\% \times 34.48)$ (Class 2 optional)
Note	"X", "Y" - Displayed values of the instrument; "Dx, Dy" - Quantization error of the instrument, Dx=2, Dy=5
Percentage Meter	Accuracy Class 1.5 (Class 1 optional)
Current	$I_n = 5A$ 1% ~ 149% I_n
$I_n = 1A$	5% ~ 149% I_n
Voltage	$U_n = 100V, 150V, 100V$ 5% ~ 149% U_n
$U_n = 100V/3$	5% ~ 149% U_n
Current	TO to TX < 0.12ohm, cosPhi=1
Voltage	a to x < 0.25VA (at 100V)

Standard scope of supply

No.	Item	Qty	Notes
1	Main Unit of Instrument Transformer Calibrator	1 Set	Host device
2	High-precision Test Connecting Cables	4 Pcs	For CT & VT wiring test
3	Power Supply Cord	1 Pc	AC 220V power cable
4	Complete Operation Manual (English + Chinese)	1 Copy	Detailed operation & calibration guide
5	Factory Calibration Certificate	1 Copy	Official metering calibration document
6	Portable Hard Carrying Case	1 Pc	Shockproof case for outdoor transport
7	Spare Fuse	2 Pcs	Replacement consumable

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.