

HF-TC-616

Dry Type Transformer Material Analyzer



This Dry Type Transformer Material Analyzer integrates DC resistance, turns ratio and power parameter testing. It supports multi-range auto-switching, $\pm 0.2\%$ basic accuracy and 0.1uohm resolution, with wide operating temperature and reliable insulation for dry transformer factory & on-site inspection.

Key features

- Accurately identify winding materials of 10kV dry-type distribution transformers.
- Passively and precisely measure the rated capacity of all kinds of distribution transformers without external power supply.
- Measure load loss, no-load loss, short-circuit voltage, no-load current and other parameters of various transformers.
- Support external voltage transformers and current transformers for range expansion, enabling tests on transformers with any specifications.
- Adopt full-Chinese menus and graphic operation prompts for user-friendly human-machine interaction. Touch buttons simplify operation and adapt to all seasons.

Technical specifications

Parameter	Value
Voltage Measurement Range	0~10V
Current Measurement Range	0~10A
Voltage Measurement Range	0~750V wide range (external voltage transformer connectable)
Current Measurement Range	0~100A with fully automatic internal range switching (external current transformer connectable)
Voltage, Current, Frequency	$\pm 0.2\%$
Power	$\pm 0.5\%$ ($\text{CosPhi} > 0.1$), $\pm 1.0\%$ ($0.02 < \text{CosPhi} < 0.1$)
3. Turns Ratio Test Accuracy	0.5%
Output Current	$\leq 5\text{mA}$, 40mA, 200mA, 1A, 5A, 10A
Resolution	0.1uohm
$\leq 5\text{mA}$ range	100ohm-20Kohm
40mA range	1ohm-250ohm
200mA range	100mohm-50ohm
1A range	5mohm-10ohm
5A range	1mohm-2ohm
10A range	0.5mohm-0.8ohm
Accuracy	2‰ for above 5mA; 5‰ for below 5mA
5. Operating Temperature	-10°C~+40°C
(1) Voltage & Current Input Terminals to Cabinet Shell	Insulation resistance $> 100\text{Mohm}$
(2) Working Power Input Terminals to Outer Shell	Withstand AC power frequency 2kV (RMS) for 1 minute test
7. Dimensions	41cm×35cm×18cm
8. Weight	10Kg

Standard scope of supply

No.	Item	Qty	Notes
1	Dry Type Transformer Material Analyzer (Main Unit)	1 Set	Host device
2	Voltage Test Leads	2 Pair	High-voltage input
3	Current Test Clips	2 Pair	Low-resistance measurement
4	AC Power Cord	1 Piece	With 3-pin plug
5	Fuse	2 Piece	Spare
6	Operation Manual	1 Copy	Printed hardcopy
7	Product Certificate of Conformity	1 Piece	Factory QC passed
8	Warranty Card	1 Piece	Serial numbered
9	Calibration Report	1 Copy	Traceable data sheet
10	Carrying Handle / Strap	1 Set	Portable accessory
11	Export Wooden Case	1 Piece	Plywood, fumigation-free
12	Packing List / Shipping Documents	1 Set	Attached to case exterior

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.