

HTCT-201 HV CT Ratio Tester



I. Introduction

HTCT-201 breaks the traditional structure, specializing in on-line measurement of high-voltage current transformer in service under 60KV, primary and secondary current, ratio, and leakage current of transformers. It consists of high voltage detector, low-voltage current clamp, main tester, high-voltage insulation rods. The wireless transmission signal is able to penetrate obstacles, such as walls of buildings, does not affect the readings. Without the use of insulating rod, it can also be used as high-precision low-voltage clamp meter or leakage ammeter.

Current clamp: In order to make sure of the high accuracy, stability and reliability during perennial monitoring, special alloy is selected, latest CT technology and magnetic shield technology are adopted, which make sure almost resistance to external magnetic field.

II. Features

- 1.The wireless transmission signal is able to penetrate obstacles, such as walls of buildings, does not affect the readings.
- 2.Special alloy is selected, latest CT technology and magnetic shield technology are adopted, which make sure almost resistance to external magnetic field.
- 3.Gorgeous blue LCD presents you clear information at a glance and it possesses super large memory space.
- 4.Lightweight insulating rod, with moisture-proof, high temperature resistance , bending resistance, impact resistance, high insulation , scalable, and other characteristics.

III. Parameters

Function	On-line testing for current, ratio, polarity, phase and leakage current of primary/secondary circuit of high/low voltage current transformer; on-line testing for current and ratio between two sides of the transformer.
Power source	DC6V alkaline dry battery(1.5V AAA×4) keeps a continuous work for 20 hours
Test way	Clam-on CT
Transmission way	Wireless transmission with linear transmission distance about 30m
Display mode	LCD: 128dots×64dots; Blue screen, backlight, suitable for dark places
LCD dimension	Display area: 44mm×27mm
Tester size	Width × Height× Thickness : Main engine: 75mm×170mm×30mm HV Current Clamp : 76mm×255mm×31mm LC Current Clamp : 175mm×70mm×38mm
Clamp Dimension	HV Current Clamp:φ48mm LC Current Clamp: φ25×30mm
Sampling speed	3 times/second
Measurement range	High voltage detector: 0.1mA~1000A Low-voltage current clamp: 0.01mA~10A
Resolution	High voltage detector: 0.1mA Low-voltage current clamp: 0.01mA
Gearing	Automatic gearing
Measuring accuracy of the primary circuit (23°C±3°C, <80%RH)	0.0mA~299mA: ±1%±3dgt
	0~10.0A: ±1.0%±5dgt
	10.0A~49.9A: ±2%±5dgt
	50A~199.9A: ±3%±5dgt
	200A~600A: ±4%±5dgt
601A~1000A: ±5%±5dgt	
Measuring accuracy of the secondary circuit	0~10A: ±0.5%±5dgt (23°C±3°C, <70%RH)
Ratio	Three kinds of ratios:(actual measurement of primary/secondary circuit; transformation on the basis of secondary circuit bearing current 5A; transformation on the basis of 10kV-YY of 10kV/380V transformer and the Max. ratio is 1:10 million (1.0K7)
Data storage	3,000 sets, press HOLD to hold the data ,number and store automatically(power failure or battery replacement will not cause data missing)
Line voltage	Test for lines bearing voltage below 60kv (insulating rods with five knots must be used)
Data hold	Press HOLD to hold the data, and sign of "Hold" appears; press it again, holding will be canceled.
Data search	Press HOLD and POWER to enter the mode of data search.
Overflow display	Outrange overflow: "OL A" appears
No signal instruction	When the main engine does not receive transmit signals, present "No Signals"
Automatic shutdown	15 minutes after starting up, the tester will shut down automatically
Battery voltage	When battery voltage is below 4.8v, signs will remind you of

	replacement
Weight	Main engine: about 240g (including battery) High voltage detector: about 335g (including battery) Low-voltage current clamp: 150g Total weight: 5kg(including insulation rod and battery)
External interference	No super strong electromagnetic field; no same frequency interference of 433 MHz and 315 MHz
Working temperature and humidity	-25°C~45°C; 80%Rh
Storing temperature and humidity	-10°C~60°C ; 70%Rh
Insulation rod size	φ32mm, 1m/know (standard configuration: five knots), extendable
Length of the lead of LV current clamp	Standard: 2 meters
Insulation strength	High voltage detector: AC100kV/rms(section between the fifth insulation rod and the clamp core of high-voltage current clamp) Main engine and low-voltage current clamp: AC1000V/rms
Structure	Anti-drip II(high voltage detector)

IV. Accessories

