



GDCT-9500B Wireless HV CT Turns Ratio Tester



General Information

GDCT-9500B Wireless HV CT Turns Ratio Tester is designed for online measurement of high voltage CT, primary current, secondary current, turns ratio, polarity, leakage current of transformer 60kV and below (such as: 10kV or 35kV).

It can also be used as high-precision low-voltage clamp ammeter and leakage ammeter if the insulating rod is not used. It is integrated with functions of meter below: high/low voltage clip-on ammeter, high-altitude current telemeter, high-altitude leakage current tester, high precision clamp leakage ammeter.

It is composed of special high voltage tester, LV current clamp, main unit, HV insulating rod, monitoring software, communication line and so on, Wireless data transmission can penetrate wall barriers, linear transmission distance of 30 meters.

It is widely used in the substation, power plants, the auditing departments of electric power, industrial and mining enterprises as well as the testing station, electrical maintenance department and so on.

Features

- The current clamp is made of special alloy, adopts the latest CT technology and magnetic shielding technology, and is almost immune to the influence of external magnetic field, which ensures high precision, high stability and high reliability of constant monitoring.
- Clear LCD display of main unit, super large storage, it can store 3000 groups of data.
- Monitoring software has online real-time monitoring and historical query function, dynamic display, with the maximum, minimum, average value indication, alarm value setting and alarm indication function, with historical data reading, storage, query and printing.
- High voltage tester, connected with insulating rod of 5 sections, can be used to measure current in lines with insulating layer below 60kV, or in HV/LV circuit of bare wire below 35kV.
- By pressing or pulling insulating rod, the special HV current clamp and test lead are easy to be removed.

- The insulation rod is light, with characteristics of moisture-proof, high temperature resistance, shock resistance, bending resistance, high insulation and telescopic.

Specification

Function	<p>Online test of current, ratio, polarity, phase difference and leakage current of the primary and secondary circuit of the HV & LV current transformer;</p> <p>On - line test of current and ratio on both sides of transformer</p>
Power supply	<p>AC220V±10%, 50±1Hz;</p> <p>DC6V alkaline dry battery (1.5V AAA size 4pcs), can continuously work for 30 hours.</p>
Test method	Clip-on CT
Transmission mode	Wireless transmission, linear transmission distance 30m
Display	<p>LCD: 128*64 dot matrix</p> <p>Backlight function, applicable in the darkness.</p>
LCD size	Display area: 44mm*27mm

Meter size (Width*Height*Thickness)	Main unit: 78*165*42mm High voltage tester: 76*255*31mm LV current clamp: 70*115*38mm
Size of clamp	High voltage tester: ϕ 48mm LV current clamp: 25mm*30mm
Sampling rate	2 times/second
Measurement range	High voltage tester: 0.0mA~1200A LV current clamp: 0.00mA~10A
Resolution	High voltage tester: 0.01mA; LV current clamp: 0.01mA
Gear shift	Fully automatic gear shift
Accuracy of primary loop test (23°C \pm 3°C, <80%RH)	0.0mA~10.0A: \pm 1% \pm 5dgt
	10.0A~49.9A: \pm 2% \pm 5dgt
	50.0A~199.9A: \pm 3% \pm 5dgt
	200A~600A: \pm 4% \pm 5dgt
	601A~1200A: \pm 5% \pm 5dgt
Accuracy of secondary loop test	0.00mA~10A: \pm 0.5% \pm 5dgt (23°C \pm 3°C, <70%RH)

Turns ratio	<p>Display of 3 kinds of turns ratio:</p> <p>Measured turns ratio in primary and secondary circuit;</p> <p>The conversion ratio of secondary loop 5A is taken;</p> <p>With the conversion ratio of 10kV-YY of the transformer 10kV/380V)</p> <p>The maximum conversion ratio is 1:10 million.</p>
Data storage	<p>3000 groups, press the HOLD key to keep data, and data is numbered automatically (the data will not be lost if there is power failure or battery replacement).</p>
Line voltage	<p>Current measurement in lines with insulating layer below 60kV, or in bare wire below 35kV. (5 sections of insulating rod is required)</p>
Data hold	<p>Press the HOLD key to hold data, the HOLD symbol will be displayed, and then press again to cancel holding.</p>
Data review	<p>Press HOLD and POWER simultaneously to enter data review interface.</p>
Overflow display	<p>Exceeding measuring range overflow function: "OL A" icon display</p>
No signal indication	<p>When main unit does not receive the transmitter's signal, it will prompt "no signal".</p>
Auto shut-down	<p>Automatically shut-down after powering on for 15 minutes.</p>

Battery voltage	When the battery voltage is lower than 4.8V, indication is displayed to remind user to replace battery
Meter's weight	Main unit: 330g(with battery) High voltage tester: 335g(with battery) LV current clamp: 150g Total: 5kg(with carrying case and insulating rod)
External interference	Avoid extremely strong electromagnetic field Avoid 433MHz.and 315MHz co-channel frequency interference
Working condition	-25°C~45°C, <80%RH
Storage	-10°C~60°C, <70%RH
Size of insulating rod	φ32mm, 1m/section, 5 sections
LV current clamp lead	2m
Insulation strength	Insulating rod: AC 60kV/rms (5 sections of insulating rod are all connected, between two ends) Between main unit and tester: AC1000V/rms(between enclosure and screw)
Structure	Drip-proof structure type II (high voltage tester)

Ambient temperature	-10°C~50°C
Ambient humidity	≤85%
Altitude	≤2000m

Packing List

High voltage tester	1 set
Main unit	1 set
LV current clamp	1pc
Insulating rod (1m/section)	5 sections
USB communication line	1pc
Cloth bag	1pc
AAA size alkaline dry battery	8pcs
User's guide	1 copy
Factory test report	1 copy
Warranty card	1 copy