ES1010 Wireless Current Ratio Tester



Ⅰ. Characteristic

ES1010 wireless high and low voltage ratio tester is also called high and low voltage CT wireless ratio tester. It consists of high voltage detector, low voltage current clamp, host, high voltage insulating rod, monitoring software, communication line, etc. The instrument adopts fast digital circuit processing technology, which can connect the insulating rod to measure the primary, high-voltage primary current, and low-voltage secondary current of high-voltage current transformers below 60kV, transformers, and low-voltage secondary currents without disconnecting wires and power failures on site. Transformation ratio value, phase difference, polarity, and transformation ratio error.

When the insulating rod is not used, it can also be used as a high-precision low-voltage clamp-type ammeter and a leakage current meter. It is easy to use and easy to carry. Its wireless transmission function can receive the measured data within a straight line of 30 meters, ensuring uninterrupted all year round. High precision, high reliability and high stability of the test. The host adopts a large-screen LCD display, which has the characteristics of small size, light weight and easy to carry, and can save 500 sets of data. The measurement range of high voltage current is 0.0mA～1200A, and the measurement range of low voltage current is 0.0mA～20A.

The current signal of the high-voltage detector adopts wireless transmission technology and is connected to the insulating rod. By pushing or withdrawing the insulating rod, it is convenient to clamp or evacuate the conductor under test, which is time-saving and fast. It can be widely used in substations, power plants, industrial and mining enterprises and testing stations, Electrician maintenance department for current detection and field electrical work. The insulating rod has the characteristics of light weight, moisture resistance, high temperature resistance, impact resistance, bending resistance and high insulation.

Ⅱ. Technical Specification

Tester	High Voltage Detector	Host (current clamp)
Range	0.0mA~1200A(50/60Hzautomatic)	0.0mA～20A
Resolution	0.1mA	0.1mA
Jaw size	ϕ50mm	ϕ7.5mm
Test accuracy	±2%±5dgt	±0.5%±5dgt
Sample rate	2 times/sec	
Features	Current, transformation ratio, polarity, phase difference and online test of primary and secondary circuits of high and low voltage current transformers; online test of current size and transformation ratio on both sides of transformer; load current test	
Transmission type	Wireless transmission, linear transmission distance 30m	
Shift	Fully automatic shifting	
Power supply	DC6V AA alkaline battery (1.5V AAA×4)	DC7.5V AA alkaline battery (1.5V LR6×5)
Test method	Clamp CT	
Dimensions	length width height87*37*262mm	Host: length, width and height 100*35*204mm
		Current clamp: length, width and height 42*20*137mm
Display mode	LCD: 128dots×64dots blue screen backlight function, suitable for dark places	
LCD size	62mm×44mm	
Ratio	3 kinds of transformation ratio display: (the transformation ratio of the measured current of the primary and secondary circuits; the transformation ratio of the secondary circuit 5A; the transformation ratio of 10kV-YY of the transformer 10kV/380V), the maximum transformation ratio is 1:10 million	
Line voltage	Line test with insulating sheath below 60kV or current test of bare wire below 35kV (must operate with insulating rod)	
Lead length	Current clamp lead 2 meters	
Quality	Total mass of meter: 3.1Kg (including insulating rod and meter package)	
	High voltage detector: 370g (including battery)	
	Host: 409g (including battery)	
	Current clamp: 180g	
Data interface	USB transfer	
Overflow display	Overrange overflow function: "OL A" symbol display	
Data storage	500 groups, press the **HOLD** key to hold the data, the **MR** symbol will display, and then press the **HOLD** key to cancel the hold	
Data access	Long press the **HOLD** key to enter the data review mode	
data full	Data full function: "FULL" symbol display	
No signal indication	When the host does not receive the transmit signal, it will prompt "NO SIGNAL -----"	
Automatic shut-down	The meter shuts down after about 15 minutes of inactivity	
Battery voltage	When the battery voltage drops to 5.2V, the low battery indicator lights up, reminding to replace the battery	When the battery voltage drops to 5.2V, a low battery voltage symbol will be displayed to remind you to replace the battery

Insulated rod	Five sections of insulating rods (5 meters in total)
Dielectric Strength	AC 60kV/rms
Line test	Line voltage below 60kV with insulated sheathed wire test, below 35kV bare wire test (with insulation rod operation)
Operating temperature	-10℃～40℃
Storage temperature	-10℃～60℃
Relative humidity	0℃～31℃≦75%, 31℃～40℃≦50%
Suitable for safety regulations	IEC1010-1, IEC1010-2-032, pollution degree 2, CAT Ⅲ (600V) IEC61326 (EMC standard)

Ⅲ. Packing List

High voltage detector	1 set
host	1 set
current clamp	1 set
Insulated rod	1 set (5 meters in total)
instrument package	1
Battery	High voltage detector: 4 No. 7 1.5V alkaline dry batteries
data line	Low-voltage host: 5 No. 5 1.5V alkaline dry batteries
Manual, Warranty	1

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