

ES1010 Wireless high and low voltage current ratio tester



I. Product Introduction

ES1010 wireless high and low voltage ratio ratio tester is also called high and low voltage CT wireless ratio tester. It is composed of high voltage detector, low voltage current clamp, main engine, high voltage insulation rod, monitoring software and communication line. The instrument adopts fast digital circuit processing technology. In the case of not disconnecting the line at the scene and uninterrupted power, connecting insulating rods to measure high voltage current transformers up to 60kV, primary of transformers, high-voltage primary currents, low-voltage secondary currents, and can calculate the ratio of change, phase, polarity, and ratio error.

When not using insulation rods, they can also be used as high-precision low-voltage clamp ammeters and leakage current meters. It is easy to use and portable. Its wireless transmission function can receive measured data within 30 meters of a straight line, ensuring high-precision, high reliability, and high stability throughout the year. The host uses a large-screen LCD display, featuring small size, light weight, and portability. It can store 500 data sets. High-voltage current measurement range of 0.0mA ~ 1200A, low-voltage current measurement range of 0.0mA ~ 20A.

High-voltage detector current signal using wireless transmission technology, connecting the insulation rod, by pushing or withdrawing the insulation rod, it is easy to clamp or withdraw the measured wire, saving time and fast. It can be widely used in substations, power plants, industrial and mining enterprises and testing stations, electrical maintenance departments for current detection and field electrical work. Insulation rods have characteristics of light weight, moisture resistance, high temperature resistance, impact resistance, bending resistance, high insulation, etc.

II. Technical Specification

Tester	High voltage detector	Host (current clamp)
Range	0.0mA ~ 1200A (50/60Hz automatic)	0.0mA~20A
Insolution	0.1mA	0.1mA
Clamp Diameter	φ 50mm	φ 7.5mm
Test	±2% ±5dgt	±0.5% ±5dgt

Accuracy		
Sampling Speed	2 times/second	
Function	High-low voltage current transformer primary and secondary loop current, transformation ratio, polarity, phase, and on-line test; current and voltage ratio on both sides of transformer; on-line test; load current test	
Transmission type	Wireless transmission, straight line transmission distance 30m	
Shift gear	Automatic shift	
Power	DC6V 7# Alkaline battery (1.5V AAA×4)	DC7.5V 5 # Alkaline battery (1.5V LR6×5)
Test mode	Clamp CT	
Meter Dimension	W/T/H: 87*37*262mm	Host: W/T/H:100*35*204mm
		Current clamp: W/T/H: 42*20*137mm
Display mode	LCD: 128dots×64dots Blue screen backlight function, suitable for dark places	
LCD Size	62mm×44mm	
Ratio	Three kinds of transformation ratio display: (The primary and secondary circuit actually measured the current transformation ratio; the conversion ratio of the secondary circuit 5A; 10kV-YY transformer conversion ratio of 10kV/380V), the maximum ratio of 1:10 million	
Line voltage	Line test with insulation sheath below 60kV or bare wire current test below 35kV (must operate with insulation rod)	
Lead wire length	The lead wire of the current clamp 2 meter	
Weight	Total weight of instrument: 3.1Kg (including insulation rod and instrument bag)	
	High voltage detector: 370g (including battery)	
	Host: 409g (including battery)	
	Current clamp: 180g	
Data interface	USB transmission	
Overflow display	Over-range overflow function: "OL A" symbol display	
Data storage	500 groups, press HOLD key to hold data, MR symbol display, press HOLD key to cancel hold	
Data review	Long press HOLD button to enter data review mode	
Data is full	Data full function: "FULL" symbol display	
No signal instruction	"NO SIGNAL -----" is displayed when the host does not receive the transmission signal	
Automatic shut-down	About 15 minutes after power on, the meter will automatically shut down	
Battery voltage	When the battery voltage drops to 5.2V, the low-power indicator lights to remind you to replace the battery	When the battery voltage drops to 5.2V, the battery voltage is low symbol to remind to replace the battery
Insulated rod	Five section insulation rods (5 meters in total)	
Insulation strength	AC 60kV/rms	

Line test	Line test with insulation sheath below 60kV or bare wire current test below 35kV (operate with insulation rod)
Working temperature	-10℃～40℃
Storage temperature	-10℃～60℃
Relative humidity	0℃～31℃ \leq 75%， 31℃～40℃ \leq 50%
Suitable for safety regulations	IEC1010-1、IEC1010-2-032、pollution level 2、CAT III(600V) IEC61326(EMC standard)

III、Accessories

High voltage detector	1PC
Host	1PC
Current clamp	1PC
Insulation rob	1SET (total 5 meters)
Instrument bag	1PC
Battery	High voltage detector: 7#1.5V alkaline dry battery 4PCS Low voltage hose: 5# 1.5Valkaline dry battery 5PCS
Data wire	1PC
Manual, certificate	1SET



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