



STEK CLAMP EARTH TESTER CET 09 / 27 / 36

STEK CET 09 / 27 / 37 Clamp Earth Resistance Tester Starts immediately into the test. Large Jaw Size for Conductors and Bus Bars used for Earthing.

Breakthrough relay self-test mode, using the most advanced processing algorithms and digital integration technology.

Traditional product were too heavy to use, STEK Clamp Earth testers are more in line with characteristics of hand-held devices.

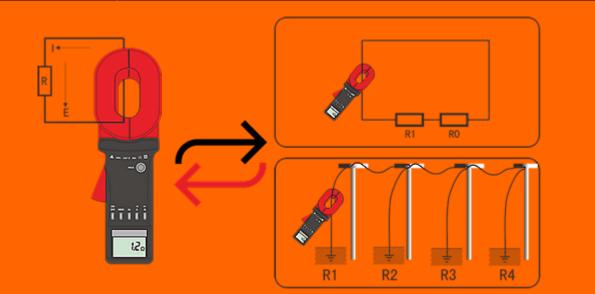
- New design, panel operation with 6 buttons, better performance.
- Increase sound and light alarm function, with "beep-beep-beep" alarm sound.
- Increase the interference signal recognition indicator function, with "beep-beep-beep" indicator.
- Measurement range: 0.01Ω-1200Ω
- Stored data 99 Units.
- Lower power consumption,

Maximum operating current less than 50mA.

STEK Clamp Earth Resistance Tester is widely used in the grounding resistance measurement of the power, telecommunications, meteorology, oilfield, construction and the industrial and electrical equipment. In the measurement of a grounding system with loop, does not require breaking down the grounding down lead, and no need the auxiliary electrode. It is safe, fast and simple in use. The tester can measure ground faults which cannot be measured by traditional methods. It can be used in applications where traditional methods cannot be measured, because the ETCR series clamp grounding resistance meter measures the combined value of grounding body resistance and grounding lead resistance.







Measure the loop resistance

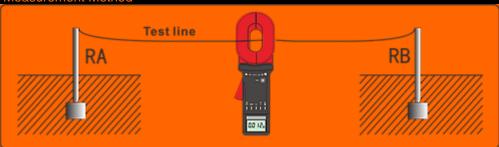
(Base on the formula: R=E/I)

Measure the grounding loop resistance system

(R1 is the measured earth resistance;

R0 is the equivalent resistance of the grounding resistor in parallel)

Measurement Method



Two earth point measurement method

The RA is the measured grounding object, connecting RA

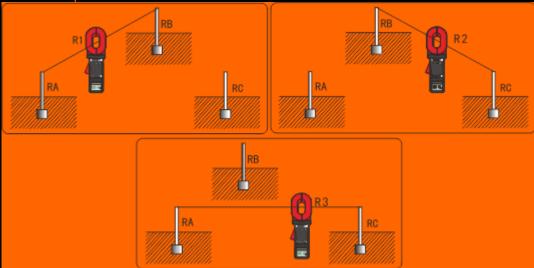
and RB (which is the nearly grounding object like as water

pipe or building) with one wire, the tester will test and indicate the concatenation resistance value of the ground resistance and the test line resistance.

RT=RA+RB+RL

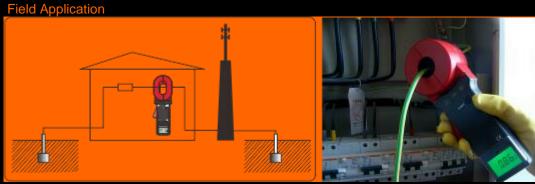
(RT is the tested value, RL is the test line resistance value)

Three earth point measurement method



- (1). Connect the RA and RB with a test line; use the Meter to get the first reading R1;
- (2). Connect the RB and RC with a test line; use the Meter to get the first reading R2;
- (3). Connect the RA and RC with a test line; use the Meter to get the first reading R3.

In the above three steps, the reading measured in each step is the value of the two series grounding resistance. In this way, we can easily calculate the value of each grounding resistance, According to the reading value of R1,R2,R3:R1=RA+RB; R2=RB+RC; R3=RA+RC, Then: RA=(R1+R3-R2)/2. As the reference points, the grounding resistance values of the other two grounding bodies. RB and RC are:RB=R1-RA; RC=R3-RA





The application of machine room earth resistance measurement

The machine room of telecommunication system normally in the upper deck of the building. It is hard to use the megohm meter to measure. However, STEK Clamp Eartg meters are very convenient to test.

The application of substation earth resistance measurement



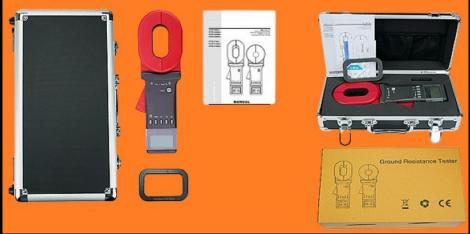
STEK series clamp meter can use to test the situation of contact and connect of circuit. With the help of one test line, it can be used to test the connect situation of equipment in station and the grounding system. Single point grounding measurement is allowed for the measurement of grounding resistance.

The application of building lightning protection grounding system measurement



If the earth poles of the building are independent of each other, the earth resistance can be measured by clamp to testing any of the earth poles, and the earth resistance can also be measured by clamp the building roof lightning arrester. When the measured value is less than the allowable value, the earth electrode is qualified .If the measurement value of the clamp meter is larger than the allowable value, please use single earth point method to measurement.

Scope Of Supply: Earth tester , Calibrated Resistance Test ring, Manual, Warranty card/Qualification card Aluminum Case and Calibration Certificate



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Measurement	Range		Resolution		Accuracy		
Resistance	0.010Ω-0.099	0.010Ω-0.099Ω		0.001Ω		±(1%rdg+0.01Ω)	
	0.10Ω-0.99Ω	0.10Ω-0.99Ω		0.01Ω		±(1%rdg+0.01Ω)	
	1.0Ω-49.9Ω	1.0Ω-49.9Ω		0.1Ω		±(1%rdg+0.1Ω)	
	50.0Ω-99.5Ω	50.0Ω-99.5Ω		0.5Ω		±(1.5%rdg+0.5Ω)	
	100Ω-199Ω	100Ω-199Ω		1Ω		±(2%rdg+1Ω)	
Technical Parameters		CET 09 CET 27 CET 36					
Function		CET 09	ET 09			CET 36	
Power Supply		4 PCS of LR6 lkaline batteries					
Clamp Size		65mm×32mm					
LCD Size		4 Digits LCD display, Screen : 47mm×28.5mm					
Range		0.010Ω~200Ω	.010Ω~200Ω				
Resolution		0.001Ω					
Current Measurement Range		NA		NA		0.00mA to 20.0 A	
Accuracy		±1%±0.01Ω					
Data Storage		99 sets					
Data Upload Function		RS232 Interface (Optional)					
Auto Power-off		Automatically power off after 5 minutes without any operate					
Power Consumption		≤50mA, continuously working for 30 hours					
Working Environment		-20°C~55°C ; 20%rh~80%rh					
Store Environment		-20°C~60°C ; below 90%rh					
Alarm threshold setting range		Resistance: 1~199Ω					
Audible and VisibleAlarm		"Beep-beep-beep" alarm sound, alarm symbol flashing, pressALkey to turn on/off and setting					
Interference Signal Recognition		"Beep-beep" indicator,NOISEsymbol blinking					
Protection Level		Double insulation					
Structural Feature		Clamp CT					
Shift		Automatic shift					
External Magnetic Field		<40A/m					
External Electrical Field		<1V/m					
Single Measurement Time		0.5 second					
Resistance Measurement Frequency		>1KHz					
Measured Current Frequency		50/60Hz Automatic					
Low Battery Voltage Indicator		When the battery voltage is lower than 5.3V, the low battery voltage symbol is displayed					
Storage Full Indication		Storage data full of 99 sets,flashed display "MEM" symbol					
Over Range Indication		Exceed range indication "OL Ω ", "L0.01" or "OL A"					
Tester Weight		1100g					
Tester Dimension		285mm×85mm×56mm					

