

SAT-11A/B 12B

Series Clamps Earth Tester

SYNERGY TELECOM PVT LTD



SAT-11A(Basic model)

SAT-11B(multi-function model)

Single Clamp Earth Tester

SAT-12B
Double Clamps Earth Tester



*high-accuracy and good adaptation
of testing environment.*

*It not only possesses the function of the traditional method but also the features
of earth resistance testing without assistant poles*

Application

© Earth resistance testing

◇ Being widely used in the fields of power industry, telecommunication, weather for earth resistance of equipments

◇ Being used in the fields of earth resistance testing for various equipments and buildings.

© Test the soil resistivity

SAT-11A/B 12B

Series Clamps Earth Tester

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SAT-11A/B Single Clamp Earth Tester

- ◎ When retesting get same result
- ◎ Equipped with standard testing wrapper, it can do accuracy self-testing

Qualifications

SAT-11A/B Single Clamp Earth Tester
Measurement Value and Accuracy

Measureme mode	Measurement range	Resolution	Accuracy
Resistance	0.010 Ω - 0.099 Ω	00.001 Ω	$\pm(1\%+0.01 \Omega)$
	0.10 Ω - 0.99 Ω	0.01 Ω	$\pm(1\%+0.01 \Omega)$
	1.0 Ω - 49.9 Ω	0.1 Ω	$\pm(1\%+0.1 \Omega)$
	50.0 Ω - 99.5 Ω	0.5 Ω	$\pm(1.5\%+0.5 \Omega)$
	100 Ω - 199 Ω	1 Ω	$\pm(2\%+1 \Omega)$
	200 Ω - 395 Ω	5 Ω	$\pm(5\%+5 \Omega)$
	400 Ω - 590 Ω	10 Ω	$\pm(10\%+10 \Omega)$
	600 Ω - 880 Ω	20 Ω	$\pm(20\%+20 \Omega)$
Electric current	900 Ω - 1200 Ω	30 Ω	$\pm(25\%+30 \Omega)$
	0.00mA - 9.95mA	0.05mA	$\pm(2.5\%+1 \text{ mA})$
	10.0mA - 99.0mA	0.1mA	$\pm(2.5\%+5 \text{ mA})$
	100mA - 299mA	1mA	$\pm(2.5\%+10 \text{ mA})$
	0.30A - 2.99A	10mA	$\pm(2.5\%+0.1 \text{ A})$
	3.0A - 9.9A	0.1A	$\pm(2.5\%+0.3 \text{ A})$
	10.0A - 20.0A	0.1A	$\pm(2.5\%+0.5 \text{ A})$

SAT-12B Double Clamps Earth Tester

- ◎ On-line measurement function
- ◎ With the function of self-testing and avoid the influence for the test result by connecting the resistance and line resistance
- ◎ Application electronic switch to improve the reliability of system
- ◎ Connect to PC to upload the test data
- ◎ With broad range of usage and measurement,with the backlighting system

SAT-12B Double Clamps Earth Tester

Measuring range for the four-wires measurement method: 0.00 Ω ~ 19.99K Error:	0.00 Ω ~ 19.99 Ω	$\leq \pm 3\%+3\text{pts}$
	20.0 Ω ~ 19.99K Ω	$\leq \pm 5\%+3\text{pts}$
Measurement method of four-wires and jaw: 0.00 Ω ~ 1.99K Ω Error:	0.00 Ω ~ 1.99K Ω	$\leq \pm 3\%+3\text{pts}$
For double jaws: 0.00 Ω ~ 100 Ω Error:	0.0 Ω ~ 19.9 Ω	$\leq \pm 10\%+2\text{pts}$
	20 Ω ~ 100 Ω	$\leq \pm 20\%+2\text{pts}$
For resistivity of earth resistance: 0.00 ~ 1999K $\Omega \cdot \text{m}$ Error:	0.01 $\Omega \cdot \text{m}$ ~ 1999 $\Omega \cdot \text{m}$	$\leq \pm 3\%+3\text{pts}$
	2.00K $\Omega \cdot \text{m}$ ~ 1999K $\Omega \cdot \text{m}$	$\leq \pm 5\%+3\text{pts}$
For the leakage(RMS): 0.0mA ~ 19.9A Error:	0.0mA ~ 9.99A	$\leq \pm 3\%+3\text{pts}$
	10.0A ~ 19.9A	$\leq \pm 5\%+3\text{pts}$
Memory	250 groups of datas	
Working temperature	-10 $^{\circ}\text{C}$ ~ +55 $^{\circ}\text{C}$	
Storage temperature	-30 $^{\circ}\text{C}$ ~ +70 $^{\circ}\text{C}$	
Power supply	6 VDC, 4 \times 1.5V AA alkaline dry battery or 4.8VDC, 4 \times 1.2V AANi-Mh recharge battery	
Weight	1.0kg (exclusive of accessories)	
Dimension	L \times W \times H:215 \times 115 \times 85mm	

Measurement Value and Accuracy

Display	Digital - Large Clear LCD
Data storage function	99 groups for storage
limit value of resistance alarm	1-199 Ω
limit value of current alarm	1-499mA
Dimension	L \times W \times H:285 \times 85 \times 56mm
Operating temperature	-20 $^{\circ}\text{C}$ ~ 55 $^{\circ}\text{C}$
Humidity	10% ~ 90%RH
Weight	1.160kg (including battery)
Power supply	4 \times 1.5V AA alkaline dry battery
Protection grade	double insulation

