

# SAT-12B

## Double Clamps Earth Tester

**AITELONG**  
Keeping your system safe and running



### Specifications

Measuring range for the four-wires measurement method	0.00 $\Omega$ ~ 19.99 $\Omega$ 20.0 $\Omega$ ~ 19.99K $\Omega$	$\leq \pm 3\% + 3\text{pts}$ $\leq \pm 5\% + 3\text{pts}$
0.00 $\Omega$ ~ 19.99K $\Omega$ Error		
Measurement method of four-wires and jaw	0.00 $\Omega$ ~ 1.99K $\Omega$	$\leq \pm 3\% + 3\text{pts}$
For double jaws	0.0 $\Omega$ ~ 19.9 $\Omega$	$\leq \pm 10\% + 2\text{pts}$
0.00 $\Omega$ ~ 100 $\Omega$ Error	20 $\Omega$ ~ 100 $\Omega$	$\leq \pm 20\% + 2\text{pts}$
For resistivity of earth resistance	0.01 $\Omega \cdot \text{m}$ ~ 1999 $\Omega \cdot \text{m}$	$\leq \pm 3\% + 3\text{pts}$
0.00 ~ 1999K $\Omega \cdot \text{m}$ Error	2.00K $\Omega \cdot \text{m}$ ~ 1999K $\Omega \cdot \text{m}$	$\leq \pm 5\% + 3\text{pts}$
For the leakage(RMS)	0.0mA ~ 9.99A	$\leq \pm 3\% + 3\text{pts}$
0.0mA ~ 19.9A Error	10.0A ~ 19.9A	$\leq \pm 5\% + 3\text{pts}$
Storage capacity	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	

### Key Features

1. Adopt the measurement method in the type of jaw and meters, It can be operated without assistance poles.
2. Realize the on-line measurement; it is unnecessary to isolate the earth device from equipment.
3. Test the RMS of leakage current under the conditions of earth/unearth of system.
4. With the function of self-checking and avoid the influence for the test result by connecting the resistance and line resistance.
5. Realize the alternation of functions, adopt the digital switch to cutover the function in order to improve the reliability of system.
6. Communicate with the upper-level PC to realize uploading of the test data which can be saved and printed easily.
7. Easy and convenient operation with broad range of usage and measurement, with the backlighting system.
8. Electrical safety: standard of IEC1010-1, EN61010-1 or IP53

