HangZhou Qiansineng Technology Co.,Ltd.

SZT-2C FOUR-POINT PROBE TESTER

1. The SZT-2C utilizes advanced circuit design, resulting in faster and more accurate measurements. The screen features a **colored LCD**, and the device comes with a computer interface and software for easy operation. The computer can automatically calculate, compare, and correct coefficients based on the specified thickness input, resulting in more precise measurements. Data can be easily stored or deleted for record-keeping purposes.

2. The test platform of the SZT-2C is a fixture that is 10cm larger in length and width than traditional testing platforms **(if customers have specific requirements for the size of the test platform, we can customize it according to the customer's dimensions).** The test frame incorporates an automatic sensing device that decelerates when approaching the object to be measured, preventing damage to the object and reducing probe wear. This feature improves measurement accuracy and is superior to similar products on the domestic market.

3. This instrument automatically adjusts the standard coefficient when testing resistance, resistivity, and square resistance, eliminating the need for manual adjustments and simplifying operation. (The pressure of this instrument can be adjusted in three levels; this function is an optional accessory) **The minimum resolution of the instrument is 0.01 mΩ.**

4. The main machine is integrated with both manual and automatic operation, and the test platform can also complete both manual and automatic functions without the need for two separate setups. The test probe is made of a tungsten needle, superior to high-speed steel needles found in other probes on the market. Each measurement automatically performs temperature compensation and voltage/current correction by the built-in computer.

5. The whole machine measurement standard uncertainty of the device is ≤2%, which is significantly lower than the error rate of other domestic manufacturers (typically ≤5%).

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-Technical parameters.

Measurement range		Constant current source	
Resistivity	10^{-5} to 10^{5} Ω·cm	Current output	DC current 0~100mA, with continuous adjustable digital settings for each range. Voltage meter range and display format: 000.00 – 199.99 mV.
Square resistance	10^{-4} ~ 10^{6}Ω/□	Range	10, 100μA, 1, 10, 100mA
Resistance	10^{-5} ~ 10^{5}Ω	Error range	±0.5% of reading ±1 digit
		Input impedance: >1000MΩ; Accuracy: ±0.1%.	
Measureable semiconductor material size		**Four-probe test probe**	
Diameter:	5mm-250mm	Probe spacing:	1mm±0.01mm
Length:	Any length is available (requires a manual probe)	Material:	Tungsten carbide.Probe mechanical wander rate:≤0.3%
Measurement method		**Display**	
Axial, cross-sectional can be		4 1/2, digital display, polarity, overload auto-show,	
Power supply	220±10% 50Hz or 60Hz Power consumption:< 35W	**The device's maximum relative error (using a silicon standard sample from 0.01-180Ω·cm) is up to ±5%.**	
Computer communication interface: USB, high-speed parallel data acquisition. Data collection time to the computer is only 1.5 seconds when connected to a computer (in 0.1mA, 1mA, 10mA, 100mA range). When connected to a computer, it comes with an automatic measurement function and automatically selects the suitable test current range for the sample.			

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