Sheet Resistance Measurement

Rapid, Intuitive Four-Point Probe Sheet Resistance Measurement :

By using four-point probe, measuring the Sheet Resistance of different kinds of conductor, semi-conductor in sheet, film or bulk form. The high accuracy four-point probe station combined with a rapid, accurate SMU (Source Measure Unit) provides a high quality, easy to use system to measure the Sheet Resistance of thin film materials for various industrial fields such as semi-conductor, solar panel, OLED, MEMS, Fuel Cells, etc.

System Features :

- Intuitive and easy to use software user interface (UI).
- Accurate measuring the sheet resistance of sample.
- Single or multiple point measuring under constant current.
- Derive the Bulk Resistivity and Conductivity by input the thickness of sample.
- Saving test data by .CSV format for easily handling data.
- Operate with Keithley 2400 SMU by default. Capable of customize software for various SMUs and ohmmeters.

Specifications :

Chuck size	6", 8", 12"	Measure item	Sheet Resistance, Bulk		
		Measure item	Resistivity, Conductivity		
Sample geometry	Circle or Square	Interface	RS-232 or GPIB		
Head Up/Down	16mm	Language	English		
Correct factor	Thickness & Geometry	PC Requirements	CPU:P4, HD:1GB, USB 2.0		
Probe Pin Material	BeCu (or Tungsten Carbide)	Monitor	1280*800 resolution		
FIODE FIII Material	becu (or rungsten carbide)	Requirements			
Probe Pin Spacing	40mil, 50mil, 62.5mil	O.S. Supported	Windows XP, WIN 7		
Probe Pin Spring	45grams, 85grams, 180grams	SMU Support	Keithley 2400 / 2401		



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495 Steet Resistance Measurement by Sheet Resistance Measurement by Four Point Probe Method										
Sample Geometry Thickness 280.00 nm Shape Side Length Square 10 cm		0.16 cm Swe		t Method eep rrent 00.000m A	20.000m 60.000m 80.000m		 ▶ Test > STOP ✓ Clear ■ Save 			
	Sample Shape	Wafer Size (cm)	Thiskness (nm)	Spacing of Probe (cm)	Sheet Resit (Ω/Sq		Bulk Resistivity (Ω-cm)	Conductivity (S/cm)	Voltage (V)	Current (A)
1	Square	10.00	280.00	0.16	13	.953	390.694u	2.560k	308.026m	100.001m
2	Square	10.00	280.00	0.16	13	.969	391.137u	2.557k	61.659m	19.995m
3	Square	10.00	280.00	0.16	13	.968	391.117u	2.557k	123.343m	40.000m
4	Square	10.00	280.00	0.16	13	.969	391.132u	2.557k	185.024m	60.001m
5	Square	10.00	280.00	0.16	13	.972	391.221u	2.556k	246.753m	80.001m
6	Square	10.00	280.00	0.16		.976	391.326u	2.555k		100.002m
7	Square	10.00	280.00	0.16	13	.977	391.359u	2.555k	370.096m	119.948m