

Micro Ohm Meter SM5082 / SM5083



Advance Features

- 8 Measuring Ranges
- Wide Measuring Range : 10 $\mu\Omega$ to 20 k Ω
- 100 n Ω Resolution
- 4 Point Measurement
- Timer Mode
- Diode Testing
- Auto Zero
- Front Panel Calibration
- Display Hold
- Microcontroller Based Design
- Memory Function
- Sorter 10 Bins
- PC Interface RS232, Auxillary Sorting IOs, USB (optional)

Technical Specifications	SM5082	SM5083		
Operating Modes :	Micro – Milliohm measurement, Timer, Sorter, Offset, Display Hold, Diode testing (SM5083)			
Test Current :	10 μ A - 10 A	10 μ A - 1 A		
(Automatically selected with range)				
Measurement Range :	8	7		
Measuring Range :	10 m Ω to 20 k Ω			
Accuracy (\pm (%Rdg +D))	\pm (0.02%+5)			
Range	Resolution	Test Current	Resolution	Test Current
2 m Ω	0.1 $\mu\Omega$	10 A	—	—
20 m Ω	1 $\mu\Omega$	1 A	1 $\mu\Omega$	1 A
200 m Ω	10 $\mu\Omega$	100 mA	10 $\mu\Omega$	100 mA
2000 m Ω	0.1 m Ω	100 mA	0.1 m Ω	100 mA
20 Ω	1 m Ω	10 mA	1 m Ω	10 mA
200 Ω	10 m Ω	1 mA	10 m Ω	1 mA
2000 Ω	100 m Ω	100 μ A	100 m Ω	100 μ A
20 k Ω	1 Ω	10 μ A	1 Ω	10 μ A
Initial accuracy	\pm 1ppm			
	(Accuracy stated at value from 10% to full scale of range)			
Ranging :	Automatic or Manual			

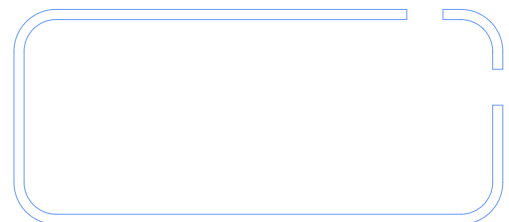
Technical Specifications	SM5082	SM5083
Measurement Mode :	Continuous, Pulsed	
Trigger :	Internal, Manual, External	
Offset :	Displays offset value from stored value	
Sorter :	Sorting of component under test	
Indication :	High, Low, Pass (value with beep)	
	Beeper ON/OFF selectable	
Timer mode :	10 sec to 1 min	
Display Modes :	Resistance, D & D%	
Measurement Rate		
Fast :	15 meas/sec,	
Medium :	6 meas/sec,	
Slow :	3 meas/sec	
Diode Testing		
Voltage Range :	—	1999.9mv
Temperature Coefficient :	100 ppm/ °C	
Save/Recall :	10 instruments setups saved into a non volatile memory	
Zeroing :	Short circuit compensation, Automatic zeroing	
General Information		
Display :	4 ½ digit 7 segment LED display	
Interface :	RS232, Auxillary Sorting IOs, USB (optional)	
Power Supply :	230 V ±10% , 50 Hz	
Power Consumption :	37 VA	
Operating Conditions :	0 °C -40 °C, 95% RH	
Pollution Degree :	2	
Installation Category :	CAT II	
Dimension :	W : 270 , H : 70 , D : 387 (mm)	
Weight :	5.3 kg (approx.)	
Accessories		
Standard Accessories :	User Manual, Banana to Crocodile Kevin Test Leads 1 Set	
	(Subject to change)	

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