

DC Resistance Meter SME1402 Series

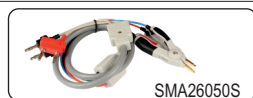


Features

- Maximum resistance accuracy: 0.05%
- Temperature accuracy: 0.2°C
- Minimum resolution: 1μΩ
- Low-resistance test mode can effectively protect DUT
- Multiple measurement combinations of R, LPR, T
- Maximum sample rate: 50samps/sec
- Temperature compensation(TC)
- Temperature conversion(Δt)
- Maximum sample rate : 50samps/sec
- Offset voltage compensation (OVC)
- Customer self-correction(0 ADJ)
- Simultaneously output compare results of 3 bins (OVER, PASS and BEEP)
- Statistics function: CpK, Cp
- 30 groups of parameter files can be saved and loaded
- Screen information can be stored on U-disk
- Data save function brings convenience for saving measurement result
- Automatically update operation software through USB HOST
- Flexible and convenient file operation system
- Handler interface realizes on-line operation
- Achieve data communication with PC and remote control through interfaces such as RS232, USB HOST, USB Device
- LCD resolution: 480×272
- 24 bits, 4.3-inch and 4-wire touch LCD screen

Technical specifications	SME1402			SME1402B		
Reading digits	4 ½ digits					
Resistance measurement						
Measurement range	1μΩ –2MΩ			1μΩ –20kΩ		
Resistance range	Current	Resolution	Accuracy	Current	Resolution	Accuracy
20mΩ	1A	1μΩ	0.05%+2D	1A	1μΩ	0.1%+3D
200mΩ	100mA	10μΩ		100mA	10μΩ	
2Ω		100μΩ			100μΩ	
20Ω	10mA	1mΩ		10mA	1mΩ	
200Ω	1mA	10mΩ		1mA	10mΩ	
2kΩ	100μA	100mΩ		100μA	100mΩ	
20kΩ		1Ω			1Ω	
200kΩ	10μΩ	10Ω	–	–	–	
2MΩ	1μA	100Ω	0.2%+2D	–	–	–

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Measurement function		
Resistance measurement time	FAST : 10ms, MED : 25ms, SLOW1 : 115ms, SLOW2 : 455ms Above data is correct when DISPLAY is off, when DISPLAY is on, 20ms should be added	
Temperature measurement time	100±10ms	–
Test terminal	4-terminal	
Average setup	1–255	
Range switch	Auto, Manual	
Trigger mode	Internal, Manual, External, BUS	
Setting data storage	30 groups	
Low voltage measurement	Open voltage ≤ 40mV Effective range : 2Ω, 20Ω, 200Ω, 2kΩ	
Statistics function	AVG, MAX, MIN, OSD (Overall standard deviation), SSD (Sample standard deviation), Process capacity index (Cp, cpk)	
Beep state	Comparator, Button	
Key lock	Available	
Temperature measurement		
Temperature measurement 1	-10.0°C–99.9°C Sensor: PT500	–
Temperature measurement 2	Analog input : 0V-2V Display : -99.9°C-999.9°C	–
Temperature compensation	√ (Convert the resistance measurement value to that one measured under preset temperature)	–
Temperature switch	√ (Temperature rising is gained from resistance test values before and after warming)	–
Compare Judge		
Comparator	Signal output	HI/IN/LO
	Beep	Beep mode: OFF, IN, HI/LO
	Limit setup mode	Absolute value high/ low limit, percentage high/low limit + nominal value
Sorting	3 bins, absolute value / percentage	
External trigger delay time	Auto: dependent on rage, low voltage mode ON/OFF, OVC (offset voltage comaensation) ON/OFF Manual : 0.000–9.999s	
External input trigger	Rising / Failing edge	
Interface	USB DEVICE, USB HOST, RS232C, Handler	
General specification		
Display	24 bit 480 x 272 and touch TFT LCD Screen	
Operating condition	Temperature 0°C–40°C, Humidity : ≤ 80%RH	
Storage condition	Temperature -10°C–50°C, Humidity : ≤ 90%RH	
Input Voltage	99V–121V, 198V–242V, 47.5Hz–63Hz	
Consumption	30VA	
Dimension	215mm x 89mm x 360 mm	
Weight	Approx 3.6 kg.	
Accessories	Mains Cord, Output Cable (SMA26050S), Temperature Sensor (PT500 with SME1402), CD, USB Cable	



SMA26050S



PT500

Subject to change

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