

DM-442B



FEATURES

- 4 3/4 Digit, 40,000count Digital Multimeter
- AC True RMS or AC+DC Voltage & Current True RMS
- Data Save and Recall by using SW-442B Software program
- Built in USB & RS-232C Interface
- Data hold and Automatic Power Off
- Triply Display (Main: 40,000counts, Sub Right and Left display: 4,000counts)
- Analog Bar Graph (40 segments, Update rate: 10time/s)
- Measure temperature, 4-20mA loop current, relative mode, MAX & MIN
- Max. 0.025% Accuracy at DC Voltage
- Inner space for containing accessories such as test leads.
- Low battery display and Set up function
- Full Overload Protection
- Measure frequency, Period, Capacitance, Continuity.

FUNCTION	RANGE	RESOLUTION	ACCURACY	Remark
DC Voltage	400mV	0.01mV	±(0.025%+5) under REL mode	Input impedance: Approx. 2.5GΩ
	4V	0.0001V	±(0.05%+5)	
	40V	0.001V		
	400V	0.01V		Input impedance: Approx. 2.5GΩ
	1000V	0.1V	±(0.1%+8)	
AC Voltage (AC+DC)	4V	0.0001V	45Hz – 1KHz; ±(0.4%+30)	Input impedance: Approx. 10MΩ
			>1KHz – 10KHz; ±(1.5%+30)	
			>10KHz – 100KHz; ±(6%+30)	
	40V	0.001V	45Hz – 1KHz; ±(0.4%+30)	
			>1KHz – 10KHz; ±(1.5%+30)	
			>10KHz – 100KHz; ±(6%+30)	
	400V	0.01V	45Hz – 1KHz; ±(0.4%+30)	
			>1KHz – 10KHz; ±(5%+30)	
1000V	0.1V	>10KHz – 100KHz;		
		45Hz – 1KHz; ±(1%+30)		
DC Current	400μA	0.01μA	±(0.1%+15); 0.5A, 250V	0.5A, 250V
	4000μA	0.1μA		
	40mA	0.001mA	±(0.15%+15)	10A, 250V
	400mA	0.01mA		
	10A	0.001A	±(0.5%+30)	
AC Current (AC+DC)	400μA	0.01μA	45Hz – 1KHz; ±(0.7%+15)	0.5A, 250V
	4000μA	0.1μA		
	40mA	0.001mA		
	400mA	0.01mA		
	10A	0.001A	45Hz – 1KHz; ±(1.5%+40)	10A, 250V
			>1KHz – 5KHz; ±(2.5%+40)	
			>5KHz – 10KHz; ±(5%+40)	
	Operating Temperature: 0°C ~ 40°C,			
Relative Humidity: 0°C ~ 30°C @ ≤75%, 30°C ~ 40°C @ ≤50%				
Power: Battery: 1.5V * 6pcs, AC220V ~ 240V 50Hz.				
Dimension and Weight: 105*240*310mm, Approx 2.5Kg				
Interface: USB, RS-232C				
Accessory		Operating Manual, Teat lead 1pair, K-type temperature probe 1, Alligator Clip 1, Test Clip 1, US		

FUNCTION	RANGE	RESOLUTION	ACCURACY
Resistance	400 Ω	0.01 Ω	$\pm(0.3\%+40)$ + Test Leada open circuit value
	4K Ω	0.0001 Ω	$\pm(0.3\%+40)$
	40K Ω	0.001 Ω	
	400K Ω	0.01 Ω	$\pm(0.5\%+40)$
	4MK Ω	0.0001M Ω	$\pm(1\%+40)$
	40M Ω	0.001M Ω	$\pm(1.5\%+40)$
Continuity		0.01 Ω	
Diode		0.0001V	
Capacitance	40nF	0.001nF	$\pm(1\%+20)$ + Test Leada open circuit value
	400nF	0.01nF	$\pm(1\%+20)$
	4 μ F	0.0001 μ F	
	40 μ F	0.001 μ F	$\pm(1.2\%+20)$
	400 μ F	0.01 μ F	$\pm(5\%+20)$
	4mF	0.0001mF	
Frequency	40Hz	0.001Hz	$\pm(0.001\%+8)$
	400Hz	0.01Hz	
	4KHz	0.0001KHz	
	40KHz	0.001KHz	
	400KHz	0.01KHz	
	4MHz	0.0001MHz	
	40MHz	0.001MHz	
	400MHz	0.01MHz	
DUTY CYCLE	100%	0.01%	$\pm(0.01\%+40)$
Temperature	-40°C ~ 40°C	0.1°C	$\pm(3\%+30)$
	40°C ~ 400°C		$\pm(1\%+30)$
	400°C ~ 1000°C		$\pm 2.5\%$
Loop current	(4-20mA)%	0.01%	$\pm(1\%+50)$