## CAPACITANCE METER

Model: DM-9023 *ISO-9001, CE, IEC1010* 





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## **FEATURES**

- \* This Digital Capacitance Meter give a direct reading of capacitance on a 3 1/2 digits LCD display. Nine ranges give precision readings from 0.1 pF to 20,000 uF, which includes virtually all capacitors used in electronic engineering labs, production, service shops, and schools. It can be used to check tolerance, sort values, select precision values, measure unmarked capacitors, select matched sets, and measure cable, switch or PCB LAYOUT capacitance. Its battery operation, light weight, and small size make it a truly portable instrument.
- \* Large LCD display, clear read-out even in bright conditions.
- \* Low power consumption..
- \* High accuracy in measuring
- \* LSI-circuit use provides high reliability and durability.
- \* Uses rotary ranges switch for easy operation.
- \* Low battery voltage indicator.
- \* Fast sampling rate.

	GENERAL SPECIFICATIONS				
Display	18 mm (0.7") LCD (Liquid Crystal Display),				
	Max. indication 1999.				
Range	9 Ranges with full scale values from 200 pF				
	to 20,000 uF				
Overload	Indication of "1"				
Indication					
Zero adjust:	Front panel Adjustment control.				
	This is limited to approx. 20 pF.				
Out-of-Range	Indication of " 1" .				
indication					
Sampling rate	0.5 second .				
Operating	0 to 50 °C (32 to 122 °F).				
Temperature					
Operating	Less than 80% RH.				
Humidity					
Power Supply	DC 9V battery.				
Battery Life	Approximately 200 hours on alkaline or 100				
	hours on carbon zinc battery with normal				
	usage. (Typical consumption current				
	3 to 4 mA on 200 pF to 200 uF range).				
Dimension	185 x 87 x 39 mm (7.3 x 3.4 x 1.5 inch).				
Weight:	290 g/0.64 LB (including battery).				

Standard	Test alligator clips (red & black 1 Pair.
Accessories	Spare Fuse (0.2A) 1 PC.
	Instruction Manual 1 PC.

ELEECTRICAL SPEECIFICATION									
Normal Max. In-range		Resolution		Test					
range Display				Frequency					
200	рF	199.9	pF	0.1	рF	800 Hz			
2	nF	1.999	nF	1	рF	800 Hz			
20	nF	19.99	nF	10	pF	800 Hz			
200	nF	199.9	nF	100	pF	800 Hz			
2	uF	1.999	uF	1000	pF	800 Hz			
20	uF	19.99	uF	0.01	uF	80 Hz			
200		199.9	uF	0.1	uF	8 Hz			
2,000			uF	1	uF	8 Hz			
	20,000 uF   19,990 uF   10 uF   8 Hz								
pF = picofarad (10^-12 Farad)									
nF = nanofarad (10^-9 Farad)									
uF = microfarad ( 10^-6 Farad)									
Accura	су	* ± 1	* ± 1 % of full scale 1 d on 200 pF to						
(23±5°C)		200	2000 uF ranges.						
* ± 1 % of full scale 1 d on 2,000 uF range.									
	* ± 2 % of full scale 2 d on 20,000 uF ranges.								
Excitati	ccitation 2.8 volts peak, maximum. POSITIVE input								
Voltage	/oltage terminal's voltage is always higher than								
	NEGATIVE terminal.								
Protect	ion	The M	The Meter is protected against damage from						
charged capacitors (more than DC 50 volt) by						than DC 50 volt) by			
	the fuse (0.2A).								