

# DM-441B

The DM-441B is a 4 1/2 digit, 20,000 count bench top multimeter. This True RMS meter has a basic accuracy of 0.1%. The DM-441B supports a full range of functions including: frequency, resistance, voltage, current with transistor check and added features like data hold, and continuity. The DM-441B is overload protected up to 600 volts in the resistance ranges.



## FEATURES

- 4 1/2 Digit display, 5 Digit Green LED, 19999 count
- Vdc Basic accuracy of 0.1%
- Full overload protection
- Frequency measurement up to 200kHz
- Continuity check with beeper
- Data hold, Diode check, TR hfe measurement available
- True RMS in AC range
- 600V overload protection in Resistance range

# Specifications

FUNCTION	Range	Resolution	Accuracy
DC VOLTAGE	200mV	10 $\mu$ V	$\pm(0.1\%+4\text{digits})$
	2V	100 $\mu$ V	
	20V	1mV	
	200V	10mV	
	1000V	100mV	
AC VOLTAGE	200mV	10 $\mu$ A	$\pm(0.5\%+20\text{digits})$ , (45Hz~1kHz)
			$\pm(0.8\%+10\text{digits})$ , (1Hz~10kHz)
			$\pm(1.0\%+20\text{digits})$ , (10Hz~20kHz)
			$\pm(3.0\%+30\text{digits})$ , (20Hz~50kHz)
	2V	100 $\mu$ A	$\pm(0.5\%+10\text{digits})$ , (45Hz~300Hz)
			$\pm(0.8\%+40\text{digits})$ , (300Hz~10kHz)
			$\pm(1.0\%+20\text{digits})$ , (10Hz~20kHz)
20V	1mV	$\pm(0.5\%+10\text{digits})$ , (45Hz~300Hz)	
		$\pm(0.8\%+40\text{digits})$ , (300Hz~10kHz)	
200V	10mV	$\pm(1.0\%+20\text{digits})$ , (10Hz~20kHz)	
750V	100mV	$\pm(3.0\%+30\text{digits})$ , (20Hz~50kHz)	
DC CURRENT	2mA	0.1 $\mu$ A	$\pm(0.5\%+1\text{digit})$
	20mA	1 $\mu$ A	
	200mA	10 $\mu$ A	
	2A	100 $\mu$ A	
	10A	10 $\mu$ A	
AC CURRENT	2mA	0.1 $\mu$ A	$\pm(0.75\%+3\text{digit})$
	20mA	1 $\mu$ A	
	200mA	10 $\mu$ A	
	2A	100 $\mu$ A	
	10A	10mA	
RESISTANCE	200 $\Omega$	10M $\Omega$	$\pm(1.0\%+10\text{digits})$ , (45Hz~10kHz)
	2k $\Omega$	0.1 $\Omega$	
	20k $\Omega$	1 $\Omega$	
	200k $\Omega$	10 $\Omega$	
	2M $\Omega$	100 $\Omega$	
	20M $\Omega$	1k $\Omega$	
FREQUENCY	20KHz	1Hz	$\pm(2.0\%+20\text{digits})$ , (10Hz~20kHz)
	200KHz	10Hz	$\pm(1.0\%+10\text{digits})$ , (45Hz~2kHz)
TR hfe	BASE CURRENT : 3.5 $\mu$ A, Vce : Approx. 4.5V		
DIODE CONTINUITY	TEST VOLTAGE : 4.5V Approx., Maximum test Current : 1mA Threshold : 200 $\Omega$ or Less		