



# Digital Multimeter w/ True RMS, Temperature and Capacitance



## Functions

- True RMS
- 1000V AC/DC
- 10A AC/DC
- Capacitance seals 40.00nF to 100.0μF
- Frequency 10MHz
- Resistance
- Diode test
- Continuity
- Temperature range: -40° to 2372°F

## Features

- All inputs, ranges and functions protected to CATIII 1000V
- 0.5% basic DC accuracy
- Auto ranging
- Access to battery and fuses without breaking calibration
- Data hold
- Relative mode
- Over molded case
- 5-Year limited warranty

## Includes

- Test leads (ATL55)
- Alligator clips
- Battery (9V)
- Fuses (AF38/ AF39)
- K-Type temperature probe (ATT29)
- K-Type temperature adapter (ATT70)
- Manual (DM391/393 MAN)



## Downloads



Manual



Data Sheet

## Application Photos





## Specifications

### DC Volts

Range	Resolution	Accuracy
400mV	100µV	± (0.5%+2 dgts)
4V	1mV	
40V	10mV	
400V	100mV	± (0.75%+3 dgts)
1000V	1V	

NMRR : >60db @ 50/60 Hz

CMRR (COMMON MODE REJECTION RATIO) : >120 db @ DC, 50/60 Hz, Rs=1kΩ

Input Impedance : 10MΩ, 30 pF nominal (50 MΩ, 100 pF nominal for 400 mV range)

### AC Volts

Range	Resolution	Accuracy
400mV	100µV	± (2.0%+10 dgts)
4V	1mV	
40V	10mV	± (0.75%+3 dgts) (40-400Hz)
400V	100mV	
1000V	1V	± (1.0%+5 dgts) (40-400Hz) 2.0% + 3 (400Hz-1kHz)

CMRR (COMMON MODE REJECTION RATIO) : >60db @ DC Hz, Rs = 1 kΩ

Input Impedance : 10MΩ, 30 pF nominal (50 MΩ, 100 pF nominal for 400 mV range)

### DC Current

Range	Resolution	Accuracy
400µA	0.1µA	± (1.0%+2 dgts)
4000µA	1µA	
40mA	10µA	
400mA	100µA	
4A	1mA	± (1.5%+5 dgts)
10A	10mA	

### AC Current

Range	Resolution	Accuracy
400µA	0.1µA	± (1%+5 dgts) (40-400Hz)
4000µA	1µA	
40mA	10µA	
400mA	100µA	
400mA	1mA	± (1.5%+5 dgts) (400Hz-10kHz)
4A-10A	10mA	
		± (1.5%+10 dgts) (40-400Hz)
		± (1.5%+5 dgts) (400Hz-10kHz)

### Resistance

Range	Resolution	Accuracy
400Ω	0.1Ω	± (1.0% + 5 dgts)
4000Ω	1Ω	
40kΩ	10Ω	± (.5% + 3 dgts)
400kΩ	100Ω	
4MΩ	1kΩ	± (1.0% + 5 dgts)
10MΩ	10kΩ	

### Duty Cycle

Range	Resolution	Accuracy
0.1% ~ 99%	0.1%	0.5kHz to 500kHz (pulse width >2µ sec.) ± (0.1% + 0.05% per kHz + 1count) for 5V input (Logic signals only)

### Continuity

Beeper sounds between <10Ω and >60Ω

### Capacitance

Range	Resolution	Accuracy
40nF	10pF	± (2.5% + 10 dgts)
400nF	100pF	
4µF	1nF	
40µF	10nF	
100µF	100nF	

### Frequency

Range	Resolution	Accuracy
5Hz	0.001Hz	± (0.05% + 3 dgts)
50Hz	0.01Hz	
500Hz	0.1Hz	
5kHz	1Hz	
50kHz	10Hz	
500kHz	100Hz	
5MHz	1kHz	
10MHz	10kHz	

### Temperature

Range	Resolution	Accuracy
-40°C to -10°C (-40°F to 14°F)	1°C 1°F	± (3% ± 5°C) ± (3% ± 5°F)
-10°C to 400°C (14°F to 752°F)	1°C 1°F	± (1% ± 3°C) ± (1% ± 3°F)
400°C to 1300°C (752°F to 2372°F)	1°C 1°F	± (3% of reading) ± (3% of reading)

### Frequency Counter Sensitivity

Range Minimum Sensitivity (RMS Sine Wave)	40Hz - 10kHz	10Hz - 20kHz
V (4V - 1000V)	500mV	500mV
µA (400µA - 4mA)	>15% F.S. of AC Range	Not Specified
mA (40mA - 400mA)	>15% F.S. of AC Range	Not Specified
A (4.0A - 10A)	>45% F.S. of AC Range	Not Specified

### Burden Voltage

Function	Range	Burden Voltage(Typical)
mA/µA	400µA	150µV/µA
	4000µA	150µV/µA
	40mA	3.3mV/mA
	400mA	3.3mV/mA
A	4A	0.03V/A
	10A	0.03V/A

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