

Data sheet

IDM 72

Digital Multimeter

FEATURE:

- 6000 count digital display
- Large scale display
- True RMS reading on AC mode
- 0.5% basic DCV accuracy
- Data hold
- Min/Max function
- Frequency counter
- Capacitance measurement
- Auto power off
- Shock proof from 4 feet drops
- Protective holster with tilt stand
- CAT.IV 600V/CAT.III 1000V Safety standard

SPECIFICATION:(All at 23°C ±5°C, ≤80% R.H.)

DC/AC Voltage

Range	Input Impedance	Accuracy
600.0mV DC~1000V DC	10MΩ	±(0.5%+2dgt)
600.0mV AC~750V AC	10MΩ// < 100pF	±(0.9%+5dgt) 50Hz~500Hz

Resolution: 0.1mV

Overload Protection: DC 1000V or AC 750V rms

Conversion Type: Average sensing True-RMS indicating

DC/AC Current

Range	DC Accuracy	AC Accuracy	Voltage Burden
600.0μA	±(1%+2dgt)	N/A	<4mV /μA
6000μA			
6A		±(1.5%+5dgt) 50Hz~500Hz	2V max
10A			

Overload Protection: 10A/600V for μA input
600V rms for A input

Resistance

Range	Accuracy
600.0Ω	±(0.7%+2dgt)
6.000KΩ	
60.00KΩ	
600.0KΩ	
6.000MΩ	±(1%+2dgt)

60.00M Ω	$\pm(1.5\%+2\text{dgt})$
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Resolution: 0.1 Ω

Overload Protection: 600V rms

Open Circuit Voltage: -1.3V approx.

Diode & Continuity

Continuity Beeper: <100 Ω , 2KHz tone buzzer

Open Circuit Voltage: 3V max

Test Current: 1.5mA max

Frequency

Range	Sensitivity	Accuracy
6KHz	100mV rms	$\pm(0.1\%+1\text{dgt})$
60KHz		
600KHz		
6MHz	250mV rms	
60MHz	1V rms	

Resolution: 1Hz


Overload Protection: 600V rms

Capacitance

Range	Accuracy
6.000nF	$\pm(1.9\% + 8\text{dgt})$
60.00nF	
600.0nF	
6.000 μ F	
60.00 μ F	
600.0 μ F	
6.0mF	

Overload Protection: 600V rms

General

Sampling Rate:	1.5 times/sec
Overload Indication:	“OL” or “-OL”
Low Battery Indication:	
Auto Power Off:	Approx. 10 minutes after last operation
Operating Temperature:	0 $^{\circ}$ C~30 $^{\circ}$ C ($\leq 80\%$ R.H.), 30 $^{\circ}$ C~40 $^{\circ}$ C ($\leq 75\%$ R.H.), 40 $^{\circ}$ C~50 $^{\circ}$ C ($\leq 45\%$ R.H.)
Storage Temperature:	-20 $^{\circ}$ C~60 $^{\circ}$ C
Temperature Coefficient:	0.15 \times (spec. Acc’y)/ $^{\circ}$ C <18 $^{\circ}$ C, >28 $^{\circ}$ C
Safety:	IEC 61010-1: CAT.IV 600V/CAT.III 1000V
Power Requirement:	Two 1.5V Alkaline type AAA batteries
Battery Life:	300hours(Alkaline)
Size:	76mm(W) \times 158mm(L) \times 38mm(H), without holster 82mm(W) \times 164mm(L) \times 44mm(H), with holster
Weight:	400g with holster
Accessories:	Battery (installed), Test Leads, Protective Holster and User Manual