

# DataSheet

## IDM20

### Pocket Digital Multimeter

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EN



CE  **ISO-TECH**

## **Features**

Pocket size digital multimeter  
3-3/4 digit 4000 count LCD display  
Resistance & capacitance measurement  
Frequency, duty cycle measurement  
Diode & continuity check  
Built-in non-contact AC voltage detection  
Built in flashlight  
200mA resettable fused current range  
Auto ranging & Auto Power Off  
Double moulded housing  
EN61010-1 CATIV 600V/CATIII 1000V

## Specifications

### Electrical specifications

Function	Range	Accuracy
DC Voltage	400mV	$\pm (0.5\% \text{ rdg} + 3\text{d})$
	4.000V, 40.00V, 400.0V, 600V	$\pm (1.2\% \text{ rdg} + 3\text{d})$
AC Voltage 50-60Hz	4.000V, 40.00V	$\pm (1.0\% \text{ rdg} + 8\text{d})$
	400.0V, 600V	$\pm (2.3\% \text{ rdg} + 10\text{d})$
DC Current	400.0 $\mu$ A, 4000 $\mu$ A	$\pm (2.0\% \text{ rdg} + 8\text{d})$
	40.00mA, 200.0mA	
AC Current 50-60Hz	400.0 $\mu$ A, 4000 $\mu$ A	$\pm (2.5\% \text{ rdg} + 10\text{d})$
	40.00mA, 200.0mA	
Resistance	400.0 $\Omega$	$\pm (0.8\% \text{ rdg} + 5\text{d})$
	4.000k $\Omega$ , 40.00k $\Omega$ , 400.0k $\Omega$	$\pm (1.2\% \text{ rdg} + 5\text{d})$
	4.000M $\Omega$	$\pm (5.0\% \text{ rdg} + 5\text{d})$
	40.00M $\Omega$	$\pm (10.0\% \text{ rdg} + 5\text{d})$

Capacitance	4.000nF	$\pm (5.0\% \text{ rdg} + 0.6\text{nF})$
	40.00nF	$\pm (5.0\% \text{ rdg} + 30\text{d})$
	400.0nF	$\pm (3.0\% \text{ rdg} + 15\text{d})$
	4.000 $\mu$ F, 40.00 $\mu$ F, 200.0 $\mu$ F	$\pm (5.0\% \text{ rdg} + 25\text{d})$
Frequency	9.999Hz, 99.999Hz, 999.9Hz, 9.999kHz,	$\pm (2.0\% \text{ rdg} + 5\text{d})$
Duty Cycle	0.5-99%	$\pm (2.0\% \text{ rdg} + 5\text{d})$

**Max input voltage**

600V AC/DC

**Diode Test**

Test current 1mA max., open circuit voltage of 1.5V typical

**Continuity Check**

Audible signal if the resistance is  $<100\ \Omega$

**Display**

4000 count 3 -3/4 digit LCD

**Over range indication**

LCD displays "OL"

**Polarity**

Minus (-) sign for negative polarity.

<b>Low Battery Indication</b>	“BAT” symbol indicates low battery condition.
<b>Input Impedance</b>	>7.5M $\Omega$ (VDC & VAC)
<b>AC Response</b>	Average responding
<b>ACV Bandwidth</b>	50Hz to 60Hz
<b>Auto Power Off</b>	15 minutes (approximately)
<b>Fuse</b>	mA, $\mu$ A ranges; 200mA/600V fast acting Resettable Fuse
<b>Batteries supplied</b>	Two 1.5V AAA
<b>Operating Temperature</b>	32°F to 104°F (0°C to 40°C)
<b>Storage Temperature</b>	14°F to 122°F (-10°C to 50°C)
<b>Weight</b>	145g
<b>Size</b>	104x55x32.5mm
<b>Standard</b>	IEC61010-1 CAT IV 600 V / CAT III 1000V CE Approved

### **Accessories:**

Two 1.5V AAA batteries, User manual and integral test leads.