

# Data sheet

## IDM 5

### Card Type Multimeter

#### FEATURE:

- 4000 count large scale digital display
- Auto ranging and manual selection
- Auto AC/DC Voltage selection
- Auto Resistance, Continuity, Capacitance and Diode selection
- Auto AC/DC 400.0  $\mu$  A and 400  $\mu$  A ranges
- 0.6% basic DCV accuracy
- Frequency counter
- Smart Data hold
- VoltSense™ function
- Mains Voltage Indicator
- Auto power off
- Shock proof from 4 feet drops
- Compact design on small size
- Integral safety test leads
- Deluxe carrying wallet included
- CAT.III 300V/CAT.II 600V Safety standard

**SPECIFICATION:**(All at 23°C  $\pm$ 5°C,  $\leq$ 80% R.H.)

#### DC/AC Voltage

Range	Input Impedance	Overload Protection	Accuracy
400.0mV~600V DC	10M $\Omega$	600V	$\pm$ (0.6%+2dgt)
400.0mV~600V AC	10M $\Omega$ // < 100pF	600V rms	$\pm$ (0.9%+5dgt) 50Hz~500Hz

**Resolution:** 0.1mV

**Conversion Type:** Average sensing RMS indicating

#### DC/AC Current

Range	DC Accuracy	AC Accuracy
400.0 $\mu$ A, 4000 $\mu$ A	$\pm$ (0.9%+5dgt)	$\pm$ (0.9%+5dgt) 50Hz~500Hz

**Resolution:** 0.1  $\mu$  A

**Input Protection:** 600V or 600V rms

**Conversion Type:** Average sensing RMS indicating

#### Resistance

Range	Accuracy
400 $\Omega$ ~40.00M $\Omega$	$\pm$ (0.9% + 2dgt)

**Resolution:** 0.1 $\Omega$

**Overload Protection:** 600V rms

#### Diode & Continuity

**Continuity Beeper** : <30Ω, 2KHz tone buzzer

**Open circuit Voltage** : 1.5V

**Frequency**

Range	Accuracy	Resolution
40Hz~4MHz	±(0.3% + 5dgt)	1Hz

**Overload Protection:** 600V rms

**Duty Cycle**

Range	Accuracy	Resolution
0.1%~99.9%	±(0.5% + 3dgt)	0.1%


**Overload Protection:** 600V rms

**Capacitance**

Range	Accuracy	Resolution
40nF~4mF	±(2.9% + 5dgt)	0.01nF

**Overload Protection:** 600V rms

**General**

<b>Sampling Rate:</b>	3 times/sec
<b>Overload Indication:</b>	“OL” or “OL”
<b>Low Battery Indication:</b>	
<b>Auto Power Off:</b>	Approx 20 minutes after last operation
<b>Operating Temperature:</b>	0°C~30°C (≤ 80% R.H.), 30°C~40°C (≤ 75% R.H.), 40°C~50°C (≤ 45% R.H.)
<b>Storage Temperature:</b>	-20°C~60°C
<b>Temperature Coefficient:</b>	0.2×(spec. Acc’y)/°C <18°C, >28°C
<b>Safety:</b>	IEC 61010-1: CAT.III 300V, CAT.II 600V
<b>Power Requirement:</b>	LR44 Button size 1.5V ×2 battery
<b>Battery Life:</b>	100hours
<b>Size:</b>	56mm(W)×112mm(L)×12mm(H)
<b>Weight:</b>	100g
<b>Accessories:</b>	Battery (installed), Integral Test Leads, Manual and Deluxe Carrying Wallet