

DER EE® Digital Multimeter

Auto Range D.M.M.

DE-200A/DE-201A
DE-200D/DE-201D



DE-200A
DE-200D

DE-201A
DE-201D

FEATURES:

- Auto Range
- Auto Power Off Selection
- Data Hold
- hFE & LED Test (DE-200A/DE-200D)

SPECIFICATION:

- Display: 3 1/2 Digits 2000 counts display
- Sampling Rate: approx. 3 times/sec.
- Battery : battery AAA (1.5V) x 2
- Battery Life : approx. 400 hours at DCV
- Auto Power Off: In 15 minutes approx.
- Safety Standard:
IEC61010-1 (2010) CAT. II 600V / CAT III 300V
IEC61010-1 (2001) CAT. II 600V / CAT III 300V

TEMP. / HUMIDITY:

- Operation : 0°C~50°C (32°F~122°F)
< 80% R.H. (no condensation)
- Storage : -10°C~60°C (14°F~140°F)
< 70% R.H. (no condensation)

MEASUREMENT RANGES: (23±5°C below 80% R.H. Max.)

*Accuracy: ±(%rdg+dg)

Measurement	Range	Resolution	Accuracy	Input Resistance	Remarks
V (ACV)	2V	0.001V	2.3%+5	Approx. 11MΩ	■Accuracy in the case of sine wave ■Frequency range 40~500Hz
	20V	0.01V			
	200V	0.1V			
	600V	1V			

Measurement	Range	Resolution	Accuracy	Input Resistance	Remarks
V (DCV)	200mV	0.1mV	0.7%+3	≥100MΩ	
	2V	0.001V	1.3%+3	Approx. 11MΩ	
	20V	0.01V		Approx. 10MΩ	
	200V	0.1V			
	600V	1V			

Measurement	Range	Resolution	Accuracy	Remarks
Ω (Resistance)	200Ω	0.1Ω	2%+5	■Open voltage : Approx. 0.4V ■The measuring current changes in accordance with the resistance measured.
	2kΩ	0.001kΩ		
	20kΩ	0.01kΩ		
	200kΩ	0.1kΩ		
	2MΩ	0.001MΩ	5%+5	
	20MΩ	0.01MΩ	10%+5	

Measurement	Range	Resolution	Accuracy	Remarks
$\rightarrow$ (DIODE)	2V	0.001V	10%+5	■Open voltage : Approx. 1.5V

Measurement	Range	Resolution	Remarks
$\bullet$ (BUZZER)	200Ω	0.1Ω	■Beeper on less than 100Ω and the open voltage is about 0.4V

Measurement	Range	Resolution	Accuracy	voltage drop	Max. Protection
ACμA	200μA	0.1μA	2.3%+10	AC20mV	500mA/250V Fuse
	2000μA	1μA		AC200mV	
ACmA	20mA	0.01mA	2.3%+10	AC20mV	
	200mA	0.1mA		AC200mV	
AC10A	2A	0.001A	2.3%+10	AC20mV	15A/250V Fuse
	10A	0.01A	2.5%+20	AC100mV	

*DE-200D/201D with fuse : 500mA/660V & 10A/600V

Measurement	Range	Resolution	Accuracy	voltage drop	Max. Protection
DCμA	200μA	0.1μA	2.3%+10	DC20mV	500mA/250V Fuse
	2000μA	1μA		DC200mV	
DCmA	20mA	0.01mA	2.3%+10	DC20mV	
	200mA	0.1mA		DC200mV	
DCA	2A	0.001A	2.3%+10	DC20mV	15A/250V Fuse
	10A	0.01A	2.5%+20	DC100mV	

*DE-200D/201D with fuse : 500mA/660V & 10A/600V

Measurement	Range	Resolution	Measuring range	Remarks
NPN	2000	1	hFE value is under 1000	DE-200A DE-200D Only
PNP	2000	1	hFE value is under 1000	
LED				

ACCESSORIES:

- Instruction Manual.....1
- Battery (AAA)1.5V.....2
- Test lead (red + black).....1
- Stand Rack.....1

DIMENSION & WEIGHT:

- Dimension: 138(L) x 70(W) x 32(H)mm
(5.43"x2.75"x1.26")
- Weight: approx. 140 g(0.31lbs)