


### ■ SPECIFICATIONS :

- **LCD Display** : 3 3/4 Digits With 4300 Counts
- **Sampling Rate** : Approx. 2 times per second
- **Range** : Automatic & manual
- **Overload** : "OL" Display On LCD
- **Low Battery** :  Display on LCD
- **Auto Power Off** : In 20 minutes Approx.
- **Battery** : AAA Battery 1.5V x2
- **Safety standard** :  
IEC 61010-1(2001) CAT. III 600V  
IEC 61010-1(2001) CAT. II 1000V

### ■ DIMENSIONS & WEIGHT :

- 155(L) x 74(W) x 31(H) mm (6.1" x 2.91" x 1.22")
- Approx.240g (0.53 lbs.)(Excluding battery)

### ■ 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)

### ■ FEATURES :

- Auto Hold
- Auto Power Off Selection
- Auto Range & Manual Range
- Max. 20A (for 30 sec.)
- Zero Set For Capacitance Measurement (DE-2002 / DE-2003)
- Big Current Under Protection
- High Accuracy

### ■ ACCESSORIES :

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

### ■ MEASUREMENT RANGES :

(23°C ± 5°C, 80% R.H. MAX.)

Accuracy : ±(%rdg+dgdt)

\*N/A : not available

Mean-Value detection and rms-value calibration

Measurement	Range	Resolution	Accuracy			Input Impedance	Max. Input Voltage
			DE-2001	DE-2002	DE-2003		
$\tilde{V}$ (ACV)	4V	0.001V	1%+5		0.75%+5	11MΩ; <50pF	600V rms
	40V	0.01V					
	400V	0.1V					
	600V	1V					

Measurement	Range	Resolution	Accuracy			Input Impedance	Max. Input Voltage
			DE-2001	DE-2002	DE-2003		
$\bar{V}$ (DCV)	400mV	0.1mV	0.5%+1		0.3%+1	>100MΩ	600V
	4V	0.001V					
	40V	0.01V	0.75%+1		10MΩ		
	400V	0.1V					
	600V	1V					

Measurement	Range	Resolution	Accuracy			Measuring Current	Open-Loop Voltage	Max. Input Voltage
			DE-2001	DE-2002	DE-2003			
$\Omega$ Resistance	400Ω	0.1Ω	0.75%+2			<1mA	<3.4V	600V
	4kΩ	0.001kΩ						
	40kΩ	0.01kΩ	0.75%+1			<0.5mA	<1.0V	
	400kΩ	0.1kΩ						
	4MΩ	0.001MΩ	2%+1			<70μA	<0.7V	
	40MΩ	0.01MΩ	5%+2			<0.7μA	<70nA	

Measurement	Range	Resolution	Accuracy			Open-Loop Voltage	Max. Input Voltage
			DE-2001	DE-2002	DE-2003		
$\rightarrow$ Diode	2V	0.01V	1%+1 (for measuring currents smaller than 1.0mA)			600V	600V

Measurement	Range	Resolution	Accuracy			Open-Loop Voltage	Max. Input Voltage
			DE-2001	DE-2002	DE-2003		
$\equiv$ Continuity	400Ω	0.1Ω	The buzzer turns on for resistances lower than $\leq 50 \pm 20\Omega$ .			<3.4V	600V

Measurement	Range	Resolution	Accuracy			Protection Fuse
			DE-2001	DE-2002	DE-2003	
$\ddagger$ Capacitance	20nF*	0.01nF	N/A		2%+5	500mA / 250V fuse
	200nF	0.1nF				
	2μF	0.001μF				
	20μF	0.01μF				
	200μF	0.1μF				

\*20nF range are values after zero calibration

Measurement	Range	Resolution	Accuracy			Voltage Drop	Max. Input Current
			DE-2001	DE-2002	DE-2003		
$\bar{I}$ (DC)	μA	400μA	1%+2			<0.17mV/μA	400mA (500mA/250V) fuse
		4000μA				1μA	
	mA	40mA				0.01mA	
		400mA				0.1mA	
A*	10A	0.01A	2%+2			<0.04V/A 10A (15A/250V) fuse	

\*11 ~ 20A stands with 30 sec. max.

Measurement	Range	Resolution	Accuracy			Voltage Drop	Max. Input Current
			DE-2001	DE-2002	DE-2003		
$\tilde{I}$ (AC)	μA	400μA	2.5%+20			<0.17mV/μA	400mA (500mA/250V) fuse
		4000μA				1μA	
	mA	40mA				0.01mA	
		400mA				0.1mA	
A*	10A	0.01A				<0.04V/A 10A (15A/250V) fuse	

\*11 ~ 20A stands with 30 sec. max.



DE-2001



DE-2002