

## AC Mini Digital Clamp Meter

DE-3100/DE-3102

DE-3100R/DE-3102R(RMS)



DE-3100



DE-3102

### SPECIFICATIONS:

- **Clamp Size:**  $\varnothing$  30mm or 10 x 35mm
- **LCD Display:** 3 3/4 Digits LCD With 4300 Counts
- **Sampling Reading Rate:** 2 Times / Sec. Approx.
- **Range:** Automatic
- **Auto Power Off:** Approx. 10 Minutes
- **Over Range Protection "OL":** Display on LCD and BEEP
- **Low Battery:** Display on LCD
- **Battery:** AAA Battery 1.5V x 2
- **Applicable Height:** Up To 2000m (above sea level)
- **Applicable Circuit Voltage:** AC 600V or Less
- **Safety Standard:** IEC 61010-1, IEC 61010-2-032 600V CAT. III  
Pollution Degree 2

### TEMP. / HUMIDITY:

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

### MEASUREMENT RANGES: (23°C ± 5°C, 80% R.H. MAX.)

\*Accuracy:  $\pm$  (%rdg+dgt) \*N/A: not available \*50~400Hz

Measurement	Range	Resolution	AVG		RMS		Accuracy
			DE-3100	DE-3102	DE-3100R	DE-3102R	
$\tilde{A}$ (ACA)	40A*	0.01A	●	●	●	●	1.9% + 10
	400A	0.1A	●	●	●	●	1.5% + 5

\*Measurement under 10A, the accuracy is 1.9%+20

Measurement	Range	Resolution	DE-3100	DE-3102	Accuracy	Input Impedance
			DE-3100R (RMS)	DE-3102R (RMS)		
$\tilde{V}$ (ACV)	4V	0.001V	●	N/A	1.0% + 5	11M $\Omega$ , <50pF
	40V	0.01V	●			
	400V	0.1V	●			
	600V	1V	●			10M $\Omega$ , <50pF

Measurement	Range	Resolution	DE-3100	DE-3102	Accuracy	Input Impedance
			DE-3100R	DE-3102R		
$\underline{V}$ (DCV)	4V	0.001V	●	N/A	0.75% + 2	11M $\Omega$
	40V	0.01V	●			
	400V	0.1V	●			
	600V	1V	●			10M $\Omega$

Measurement	Range	Resolution	DE-3100	DE-3102	Accuracy	Measuring Current	Open-Loop Voltage
			DE-3100R	DE-3102R			
$\Omega$	400 $\Omega$	0.1 $\Omega$	●	N/A	0.9% + 2	<1mA	<3.4V
	4k $\Omega$	0.001k $\Omega$	●			<0.5mA	<1.0V
	40k $\Omega$	0.01k $\Omega$	●			<70 $\mu$ A	<0.7V
	400k $\Omega$	0.1k $\Omega$	●			<7 $\mu$ A	
	4M $\Omega$	0.001M $\Omega$	●		2% + 2	<0.7mA	
	40M $\Omega$	0.01M $\Omega$	●		5% + 2	<70nA	

Measurement	Range	Resolution	DE-3100	DE-3102	Accuracy	Open-Loop Voltage
			DE-3100R	DE-3102R		
$\bullet$ )	400 $\Omega$	0.1 $\Omega$	●	N/A	The buzzer turns on for resistances low than 50 $\Omega$ ± 25 $\Omega$	<3.4V

Remarks : The accuracy data for ACA is subject to the conductor to be measured at the center of the iron core (clamp jaw)

### FEATURES :

- Auto Range
- Auto Power Off Selection
- True RMS (DE-3100R/DE-3102R)
- Data Hold
- Max. / Min. Hold
- Resolution 0.01A
- Pocket Size
- High Accuracy

### DIMENSION & WEIGHT:

- 189(L) x 71(W) x 37(H)mm  
(7.44"x2.80"x1.46")
- DE-3100/DE-3100R : Approx. 200g (0.44 lbs.)
- DE-3102/DE-3102R : Approx. 190g (0.42 lbs.)  
(Including Batteries)

### ACCESSORIES:

- Battery AAA 1.5V..... 2
- Instruction Manual..... 1
- Test Leads(red+black)  
for DE-3100/DE-3100R..... 1
- Carrying Case..... 1

### OPTIONAL ACCESSORIES:

- AC Line Splitter (DE-10ALS)
- \*Applicable to electrical appliances or small current