


# DER EE DE-3100 & DE-3110

## AC/DC Clamp Metre



- 4300 Count Display
- AC/DC A to 400 (30 mm jaw)
- 0.01 A resolution
- AC/DC V to 600
- Ohms to 40 M Ohms
- Continuity buzzer
- Data hold, Min/Max
- Auto off
- IEC Cat III 600V

### SPECIFICATIONS

- **Clamp Size:** Ø 30mm or 10 x 35mm
- **LCD Display:** 3/4 Digits LCD with 4300 Counts
- **Sampling Reading Rate:** Approx. 2 times per second
- **Range:** Automatic
- **Auto Power Off:** In 10 minutes approx.
- **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 600 V or less
- **Safety standard:** IEC 61010-1, IEC 61010-2-032 CAT. III 600V Pollution Degree 2

### DIMENSIONS & WEIGHT

- 189(L) x 71(W) x 37(H) mm
- DE-3100: Approx. 200g (Including batteries)
- DE-3110: 220g (Including batteries)

### TEMP/HUMIDITY

- **Operation:** 0°C~50°C / <80% R.H. (no condensation)
- **Storage:** -10°C~60°C / <70% R.H. (no condensation)

### ACCESSORIES

- Battery AAA 1.5V x 2
- Instruction Manual
- Test Leads (black + red)
- Carrying Case

### OPTIONAL ACCESSORIES

- AC Line Splitter (DE-10ALS)

## Measurement Ranges (23°C ± 5°C < 80%R.H. MAX.)

Accuracy : ±(%rdg+dgt)

Measurement	Range	Resolution	AVG		Accuracy
			DE-3100	DE-3110	
ACA	40A	0.01A	■	■	1.5% + 10
	400A	0.1A	■	■	1.5% + 5
DCA	40A	0.01V	N/A	■	1.5% + 10
	400A	0.1V		■	1.5% + 5

Measurement	Range	Resolution	DE-3100	DE-3110	Accuracy	Input Impedance
ACV	4V	0.001V	■	■	1.0% +5	11MΩ, <50pF
	40V	0.01V	■	■		10MΩ, <50pF
	400V	0.1V	■	■		
	600V	1V	■	■		
DCV	4V	0.001V	■	■	0.75% +2	11MΩ
	40V	0.01V	■	■		10MΩ
	400V	0.1V	■	■		
	600V	1V	■	■		

Measurement	Range	Resolution	DE-3100	DE-3110	Accuracy	Measuring Current	Open Loop Voltage
Resistance	400Ω	0.1Ω	■	■	0.9%+2	<1mA	<3.4V
	4kΩ	0.001kΩ	■	■		<0.5mA	<1.0V
	40kΩ	0.01kΩ	■	■		<70μA	<0.7V
	400kΩ	0.1kΩ	■	■	<7μA		
	4MΩ	0.001MΩ	■	■	2% +2	<0.7mA	
	40MΩ	0.01MΩ	■	■	5% +2	<70nA	

Measurement	Range	Resolution	DE-3100	DE-3110	Accuracy	Open Loop Voltage
Continuity	400.0Ω	0.1Ω	■	■	The buzzer turns on for resistances lower than 50Ω ± 25Ω	<3.4V

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