

## CLAMP METER **DCN301** (with case)

## **APPLICATIONS AND FEATURES**

This is a digital AC clamp meter designed for measurement of low-voltage circuits in the application range of 1000V CAT.III, 600V CAT.IV. It is suited to current and voltage measurement of power lines, electrical equipment, and electrical facilities less than 1000Vrms to ground.

- •The CT shape makes it easier to clamp cable in crowded.
- •True RMS reading for measurement of even distorted waveforms.
- An electric field (EF) function is incorporated in the tip of the CT to enable detection of about AC 90V or more.
- •Clamp opening diameter of 34 mm at maximum.

## **SPECIFICATIONS**

	Measuring range	Best accuracy	Resolution
ACA	60/600/1000A	±(2.5%+5)	0.01A
ACV	6/60/600/1000V	±(1.5%+3)	0.001V
DCV	6/60/600/1000V	±(1%+3)	0.001V
Resistance	6k/60k/600k/6M/60MΩ	±(2%+5)	0.001kΩ
Frequency	ACV:10Hz~10kHz ACA:10Hz~2kHz	±(1%+5)	0.1Hz
Capacitance	60n/600n/6µ/60µ/600µ/6m/60mF	±(4%+3)	0.01nF
Continuity	Buzzer sounds below 30Ω. Open voltage: approx. 1V or less.		
EF defection	Detects ACV and EF of approx. 90V or more		

Operation method	$\Delta - \Sigma$ method	
AC measuring	True RMS method	
Display	6000/9999(Hz function)	
Sampling rate	Approx.3 times / sec.	
Over-range	"OL" indication	
Range selection	Auto and Manual	
Polarity switching	Auto (-indication)	
Low Battery indication	lights when built-in battery voltage is 3.6V or below	
Current measurement system	Clamp type current sensor (CT)	
Environmental condition	Altitude - 2000m or less, indoor use, environmental pollution degree II	
Operating temperature	Temperature 5°C∼40°C Relative humidity Max. 80%RH at 5°C~31°C Decreases linearly through 80%RH to 50% at 31°C to 40°C. No condensation	
Storage temperature	-10°C to 40°C: ≤ 80%RH (without condensation). 40°C to 50°C: ≤ 70%RH (without condensation).	
Auto Power Off	Power turned off approx. 10min. after last operation TYP 15µA or less	
Current consumption/ Battery life	Approx.3.8mA TYP / Approx. 200hours ACA function, no load, when backlight is off	
Safety standards	IEC61010 CAT. IV 600V/CAT. III 1000V	
Bandwidth	ACA: 45~65Hz ±(1.5%+5) , 66~400Hz ±(2%+5) ACV: 45Hz~1kHz ±(1.5%+3)	
Clamp diameter / Conductor size	34mm / 10X64mm	
Battery	LR03 (AAA alkaline battery) x 3	
Size / Mass	H252 x W85 x D40 mm / Approx. 360g (batteries included)	
Standard accessories included	Instruction Manual, Test lead(ATL101), Carrying case(C202)	



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