

CLAMP METER

DCM301 (with case)

APPLICATIONS AND FEATURES

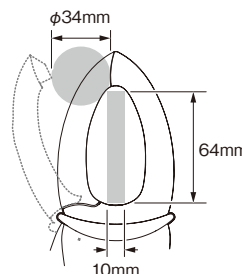
This is a digital AC clamp meter designed for measurement of low-voltage circuits in the application range of 1000V CAT.III, 600V CAT.IV. It is suited to current and voltage measurement of power lines, electrical equipment, and electrical facilities less than 1000Vrms to ground.

- 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	$\pm(2.5\%+5)$	0.01A
ACV	6/60/600/1000V	$\pm(1.5\%+3)$	0.001V
DCV	6/60/600/1000V	$\pm(1\%+3)$	0.001V
Resistance	6k/60k/600k/6M/60M Ω	$\pm(2\%+5)$	0.001k Ω
Frequency	ACV:10Hz~10kHz ACA:10Hz~2kHz	$\pm(1\%+5)$	0.1Hz
Capacitance	60n/600n/6 μ /60 μ /600 μ /6m/60mF	$\pm(4\%+3)$	0.01nF
Continuity	Buzzer sounds below 30 Ω . Open voltage: approx. 1V or less.		
EF detection	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: $\leq 80\%RH$ (without condensation). 40°C to 50°C: $\leq 70\%RH$ (without condensation).
Auto Power Off	Power turned off approx. 10min. after last operation TYP 15 μ A 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 $\pm(1.5\%+5)$, 66~400Hz $\pm(2\%+5)$ ACV: 45Hz~1kHz $\pm(1.5\%+3)$
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)



A battery for monitoring has been installed prior to shipment from the factory. It may be discharged before the expiration of the described battery life. This battery is used to check the functions and performance of the product. Specifications and external appearance of the product described above may be revised for modification without prior notice.

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