

CLAMP METER

DCM401 (with case)

APPLICATIONS AND FEATURES

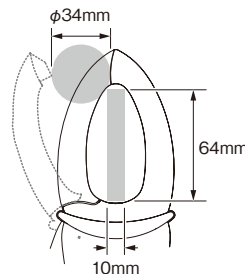
This is a digital AC/DC clamp meter with DMM functions, designed for measuring low-voltage circuits rated for CAT. III 1000V and CAT. IV 600V. It is suitable for current and voltage measurement of low-voltage power lines, electrical equipment, and power distribution facilities.

- 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.
- Low-input impedance voltage measurement to reduce the effects of ghost voltage.

SPECIFICATIONS

	Measuring range	Best accuracy	Resolution
ACA	60/600/1000A	$\pm(2.5\%+5)$	0.01A
DCA	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	$\pm(1\%+5)$	0.001V
LoZ V	1000V	$\pm(1.2\%+5)$	1V
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 at less than 30~60 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	5°C to 40°C. Humidity range is as follows (without condensation): Max. 80%RH for temperatures up to 31°C decreasing linearly to 50% RH at 40°C
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. 9.5mA TYP / Approx. 100 hours ACA function, no load, when backlight is off.
Safety standards	IEC61010 CAT. IV 600V/CAT. III 1000V
Bandwidth	ACA: 50 / 60 Hz: $\pm(2.5\%+5)$, 45~400 Hz: $\pm(3\%+5)$ 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.

CLAMP METER DCM401



EF (electric field) function

This enables detection of about AC 90V or more.



The higher the detected voltage, the more "-" symbols appear on the display (up to "----").

The EF detection LED flickers.
The buzzer sounds.

LED light

It illuminates the measurement target.



LoZ V function

Low-input impedance voltage measurement to reduce the effects of ghost voltage.

Function switch

It is designed for selecting the position easily with just one thumb.

HOLD button

Large, easy-to-press button.



Test lead
ATL101

Actual size

**COSINUS Messtechnik - Ihr Partner für Messlösungen
in allen elektrischen und physikalischen Anwendungen**

COSINUS Messtechnik GmbH

Rotwandweg 4

82024 Taufkirchen

Tel.: 089 / 66 55 94 - 0

Fax: 089 / 66 55 94 -30

office@cosinus.de
www.cosinus.de