



# KPS DCM4010FLEX Flexible Current Probe Meter User Manual

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UK  
CA

CE



3  
YEARS  
LIMITED  
WARRANTY



**Read First**

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## Safety Information

To ensure safe operation and service of the meter, follow these instructions. Failure to observe warnings can result in severe injury.



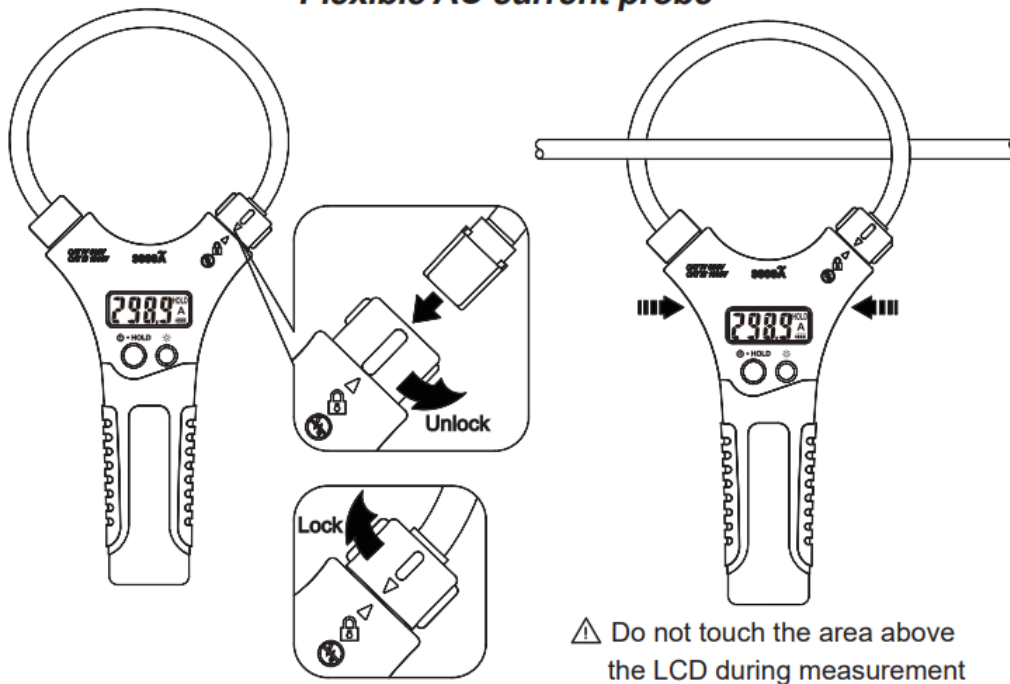
### Warning

Identify hazardous conditions and actions that could cause

## BODILY HARM or DEATH

- Individual protective equipment should be used if HAZARDOUS LIVE parts in the installation where measurement is to be carried out could be ACCESSIBLE.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- Verify the Meter operation by measuring a known Current. If in doubt, have the Meter serviced.
- Do not apply more than the rated voltage/Current, as marked on Meter.
- To avoid false readings that can lead to electric shock and injury, replace battery as soon as low battery indicator.
- Do not use Meter around explosive gas or vapor.

### *Flexible AC current probe*











- Do not use a flexible current sensor if the inner copper wire of the flexible cord is visible.
- De-energize the installation under test or wear suitable protective clothing during fitting a removal of the Flexible Current Probe.
- Do not apply around or remove from UNINSULATED HAZARDOUS LIVE conductors, which may render electric shock, electric burn, or arc flash.



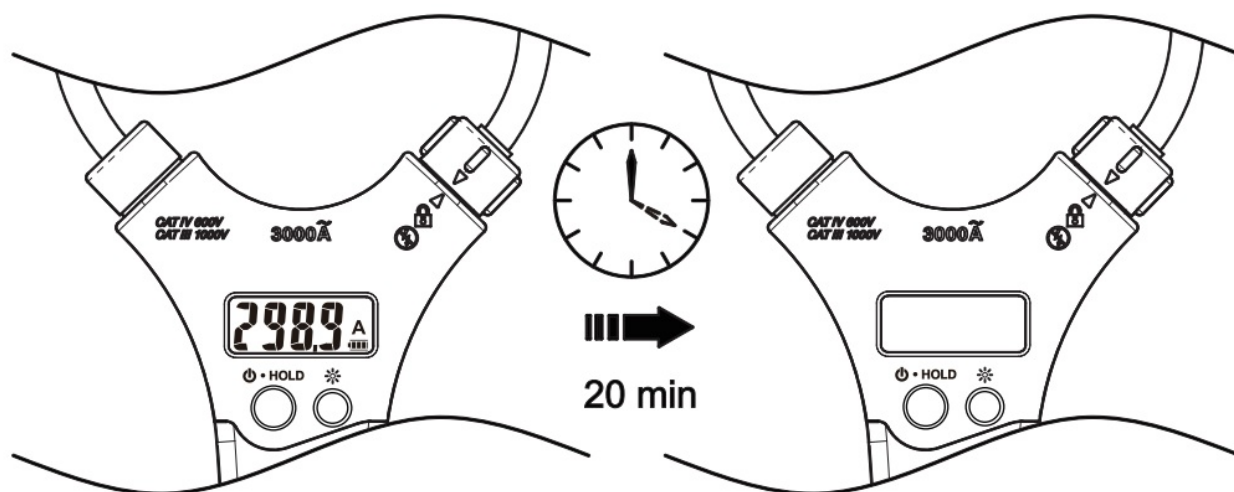
### **Caution**

Identify conditions and actions that could cause DAMAGE the meter or equipment under test. Do not expose Meter to extremes in temperature of high humidity.

### **Symbols as marked on the meter and Instruction card**

	See instruction manual
	Do not apply to or remove from HAZARDOUS LIVE conductors.
	Equipment protected by double or reinforced insulation
	Battery
	Earth
	Conforms to EU directives
	Do not discard this product or throw away
	AC measurement

### Auto Power off Function



The meter automatically turns the power off after powering up and no operation for 20 minutes  $\pm$  30 seconds.

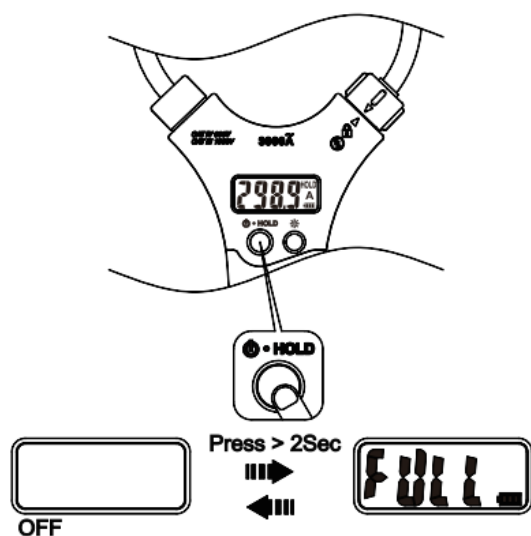
### Maintenance

Do not attempt to repair this Clamp Meter.  
It contains no user-serviceable parts.  
Repair or servicing should only be performed by qualified personnel.

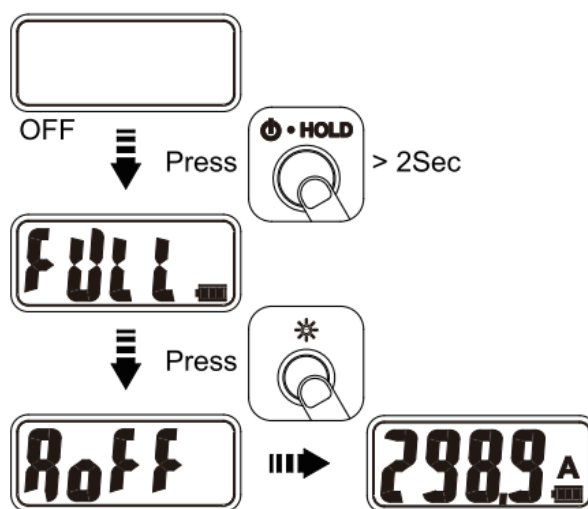
#### Cleaning

Periodically wipe the case with a dry cloth and detergent.  
Do not use abrasives or solvents.

## Power on/off

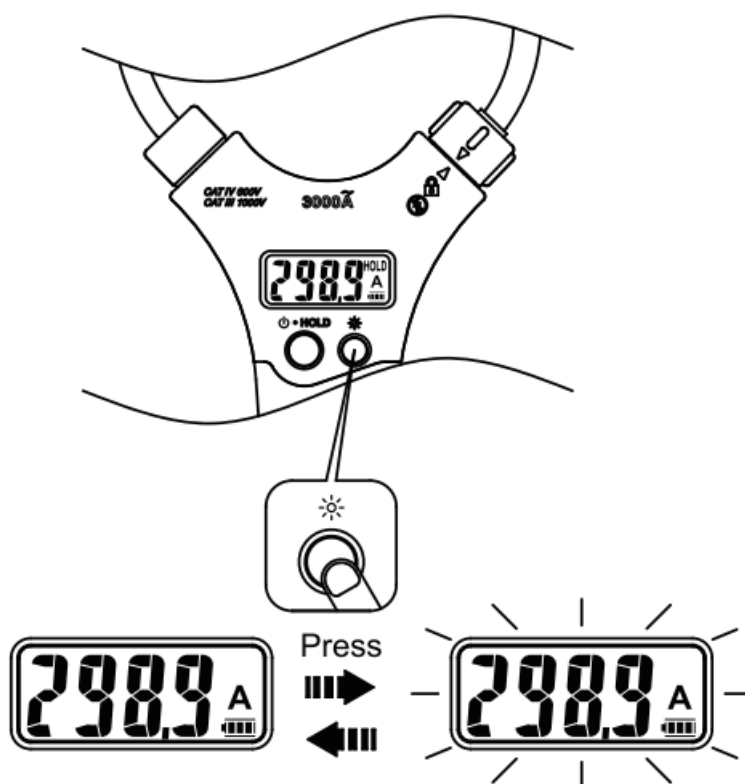


## Disable Auto Power off Function



Press "Power" button, and during the LCD shows battery capacity, press "backlight" button until the LCD shows "AoFF" to disable Auto Power Off Function.

## Backlight



## Environmental Specifications

Indoor Use.

Pollution Degree : 2

Maximum operating altitude : 2000m (6562 ft)

**Operating temperature & Relative Humidity :**

0°C – 30°C, ≤80%RH

30°C – 40°C, ≤75%RH

40°C – 50°C, ≤45%RH

**Storage temperature :**

-20°C – 60°C, 0 to 80% RH (no batteries).

**Temperature coefficient :**

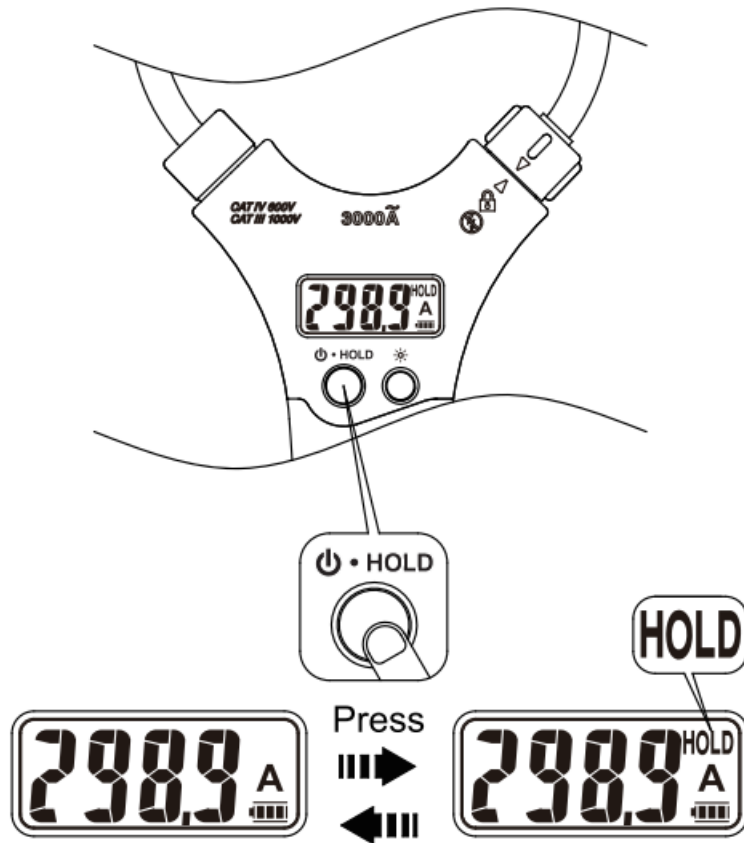
0.2 x (Specified accuracy) / °C, < 18°C, > 28°C

Shock vibration : Sinusoidal vibration

MIL-PRF-28800F (5-55 Hz, 3g max.)

Drop Protection : 4 feet drop to hardwood on concrete Floor

**Data Hold**



**Electrical Specifications**

Accuracy is given as  $\pm$ (% of reading + counts of least significant digit) at  $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , with relative humidity Less than 80% R.H.

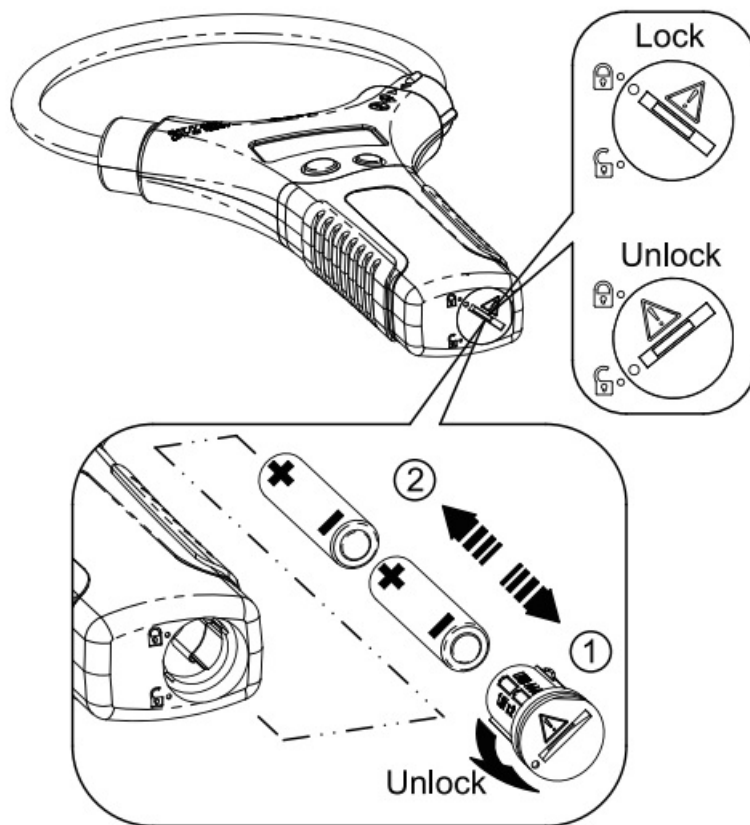
Accuracy is specified for a period of one year after calibration.

**Position Error of Clamp :**

Accuracy and position error assumes centralized primary conductor at optimum position, no external electrical or magnetic field, and within operating temperature range.

	sFlex-10	Error
Distance from Optimum (mm)	15	$\pm 2.0\%$
	25	$\pm 2.5\%$
	35	$\pm 3.0\%$

**Replacing Batteries**



### Caution

Remove Meter from conductor and turn off power before opening the battery cover.

### AC Current

Range	OL Reading	Resolution
30.00A	33.00A	0.01A
300.0A	330.0A	0.1A
3000A	3300A	1A

LCD displays 0 counts when the reading < 10 counts.

Frequency Response : 45 – 500Hz (Sine Wave)

### AC Function

ACA specifications are ac coupled, true R.M.S.

For non-sinusoidal waveforms, Additional

Accuracy by Crest Factor (C.F.):

Add 3.0% for C.F. 1.0 – 2.0.

Add 5.0% for C.F. 2.0 – 2.5.

Add 7.0% for C.F. 2.5 – 3.0.

### General Specifications

Display : 3000 counts.

Over range Display : "OL"

Dimensions (W x H x D) :

10" coil : Approx. 120mm x 280mm x 25mm

Weight(without Battery) :

10" coil : 170g

Power Requirements : AAA Size Battery x 2

Battery Life : 200 hours ALKALINE Battery

Low Batteries Indication :

Voltage drops below operating voltage,  will flash.

Maximum Conductor Size : coil size

Safety Standard :

EN61010-1, EN61010-2-032, EN61326-1

CAT IV 600V, CAT III 1000V

Conversion Rate : 4 times/second



#### CANADA & USA

MGL America, Inc.



[cs.naTimgl-inticom](mailto:cs.naTimgl-inticom)

2810 Coliseum Centre Drive, Ste. 100. Charlotte, North Carolina 28217 USA

Tel: +1 833 533-5899

#### MEXICO & LATAM

MGL LATAM S



[cs.latam](mailto:cs.latam)

Colonia Indust

Tel: +1 833-53

#### EMEA

MGL Euman, S.L.



[cs.emea@mgl-intl.com](mailto:cs.emea@mgl-intl.com)

Parque Empresarial Argame, 33163 Morcin. Asturias, Spain.

Tel: +34 985-08-18-70

#### UNITED KINGDOM

MGL GROUP



[cs.uk@](mailto:cs.uk@)

14 Weller St, L

Tel: +34 985-0



Incorporated with MGL

[www.kps-intl.com](http://www.kps-intl.com)


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Specifications are subject to change without notification.

## Documents / Resources

	<p><a href="#">KPS DCM4010FLEX Flexible Current Probe Meter</a> [pdf] User Manual</p> <p>DCM4010FLEX Flexible Current Probe Meter, DCM4010FLEX, Flexible Current Probe Meter, Current Probe Meter, Probe Meter, Meter</p>
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