

# Low Current Leakage Clamp Meter

## HEME LK60

- Measurement of leakage current of 1  $\mu$ A
- Broad current range to 60 A
- Advanced clamp design with high durability and low magnetic influence
- Display-Hold for convenience in use
- Auto power off with audible warning buzzer
- Conformance to IEC1010 and EMC standard
- Meets all the applications and performance classes in safety standard VDE0404-4 and the new VDE0702

### General

#### Application

The **HEME LK60**, with its 3 mA range and 1  $\mu$ A resolution, can be used to replace conventional testers for insulation resistance measurement.

The ability to measure leakage currents of 10  $\mu$ A makes it the ideal instrument for checking insulation of low-voltage circuits and electrical components.

The unique jaw design eliminates the influence of adjacent current conductors, and allows non-invasive checks. The high durability clamp construction can withstand over 50,000 operations.

These features combined allow the user to meet current demands for fast and reliable testing without compromising on quality or safety.

### Measuring Functions

#### IEC 1010 and EMC Conformance

IEC 1010 safety features including a tactile barrier and special jaw design provide the user with confidence when making measurements in hazardous voltage areas. Conformance to EMC standards ensures high reliability through reduced susceptibility to electromagnetic interference.

The **HEME LK60** also meets the latest safety standard VDE0404-4 and the new VDE0702 requirements.

#### High Accuracy

Advanced jaw design means that the **HEME LK60** accuracy is little affected by external magnetic fields even at low currents. Typical external current rejection is 200,000:1.



### General Specification

<b>Method of detection:</b>	Mean value
<b>Display:</b>	(Digital display: 3200 counts) (Bar-graph display: 32 segments) LCD
<b>Measurement cycle:</b>	2 times/second (Digital display), 12 times/second (Bar-graph display)
<b>Range switching:</b>	Auto-range
<b>Ambient temperature and humidity:</b>	0 - 50° C, 80 % RH or less (no condensation)
<b>Temperature coefficient:</b>	0.05 % of range/°C or less (within the ranges of 0-18° C and 28-50° C for measurement of 0-50 A)
<b>Influence of external magnetic field:</b>	0.0005 % typical*1 (on current value of adjacent cable)
<b>Influence of conductor position:</b>	Within accuracy
<b>Circuit voltage:</b>	≤ 300 Vrms
<b>Safety standard:</b>	EN 61010-1, EN 61010-2-032. 300 V cat II, Pollution Degree 2
<b>Withstanding voltage:</b>	3.7 kV AC for one minute
<b>Power supply:</b>	1 x CR2032 3 V Lithium battery (Coin-shaped)
<b>Battery life:</b>	Approx. 90 hours (when continuously used)
<b>Auto power-off:</b>	Approx. 10 minutes
<b>Diameter of measurable conductor:</b>	40 mm max.
<b>Weight:</b>	200 g
<b>Dimension:</b>	176 x 70 x 25 mm
<b>Operating altitude:</b>	2000 m



## Electrical Specification

Specifications at  $23 \pm 5$  °C. 80 % RH max

Accuracy:  $\pm(\% \text{ rdg} + \text{dgt}) = \pm(\% \text{ readout} + \text{value of least significant digit})$

## AC Current Measurement

Measuring range	Resolution	Accuracy	Max Permissible current
3 mA	0.001 mA	1 % + 5	60 Arms
30 mA	0.01 mA		
30 A	0.01 A	1 % + 5 (0~50A)	
60 A	0.1 A	5 % + 5 (50~60A)	

Mean value detection and rms-value calibration.

Accuracy specified at 50/60Hz

Frequency range 15 – 150 Hz

## Scope of Delivery

### Low Current Leakage Clamp Meter

HEME LK60	Supplied with instrument, operating instructions, battery and soft carrying case	SC0060A
-----------	--	---------

Distributor:

[www.fluke.com](http://www.fluke.com) / [www.fluke.co.uk](http://www.fluke.co.uk)

Printed in EU  
Technical modifications reserved  
Pub-ID 10970-eng

P.O. Box 9090  
Everett, WA 98206  
U.S.A.  
Tel.: (800) 443-5853  
Fax: (425) 446-5116

P.O. Box 1186  
5602 BD Eindhoven  
The Netherlands  
Tel.: 31 (0)40 2675 200  
Fax: 31 (0)40 2675 222

In June 2005  
Fluke Corporation  
acquired LEM Instruments.



FLUKE®