

Low Current Leakage Clamp Meter LK60

Short description

- Measurement of leakage current of 10 μ A
- Broad current range to 60A
- 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 LK60, with its 3mA range and 1 μ A resolution, can be used to replace conventional testers for insulation resistance measurement.

The ability to measure leakage currents of 10 μ 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 LK60 also meets the forthcoming VDE0404-4 standard and the new VDE0702 requirements.

High Accuracy

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



General Specification

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

Electrical Specification

Specifications at 23 ± 5 °C. 80%RH max
Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

AC Current Measurement

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

Mean value detection and rms-value calibration.

Scope of Delivery, Accessories, Service

Instrument

LK60	Low Current Leakage Clamp Meter	SC0060A
Supplied with instrument, operating instructions, battery and soft carrying case		

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