FLUKE®

Fluke 360

AC Leakage Current Clamp Meter

Technical Data

The Fluke 360, a rugged and accurate solution for leakage current measurement

Ideally designed for non-invasive checks of insulation condition, the Fluke 360 allows you to perform tests without powering down the installation or disconnecting equipment - saving you time, without compromising on quality or safety.

The unique jaw design of the Fluke 360 eliminates the influence of adjacent current conductors, and minimizes the effects of external magnetic fields, even at low currents. This allows you to perform accurate and reliable tests in today's crowded electrical environments. The tough and high-quality clamp design of the Fluke 360 guarantees high stability for long-term repeatability.

- Measurement of leakage current with 3 mA range and 1 µA of resolution, for accurate monitoring of insulation erosion
- Broad range of measurement, from 1 µA up to 60 A, for all installation needs
- Advanced shielding to ensure accurate results when measuring near other conductors
- The high durability clamp construction can withstand over 50,000 operations - added ruggedness that extends the life of your clamp.
- Easy-to-carry, pocket-sized clamp with wide 40 mm (1.5 in) jaw size
- Handy "Display-Hold" button for capturing readings in hard-to-reach places
- Auto power-off, with warning buzzer, saves battery life
- Conformance to IEC1010 and EMC standard for confident measurements
- Meets all of the applications and performance classes in safety standard VDE0404-4 and VDE0702 for leakage current and differential current measurement of electrical appliances

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Special Features

IEC 61010 and EMC Conformance

IEC 61010 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 Fluke 360 also meets the latest safety standard VDE0404-4 and the new VDE0702 requirements.

High Accuracy

Advanced jaw design means that the Fluke 360 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 °C to 50 °C, 80 % R_H or less (no condensation)
Temperature coefficient	0.05 % of range/°C or less (within the ranges of 0 °C to 18 °C and 28 °C to 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. 300 V CAT II, Pollution Degree 2
Withstanding voltage	3.7 kV ac for one minute
Battery type	1 x 3 V Lithium battery (button cell) CR2032
Battery life	Approx. 90 hours (when continuously used)
Auto power-off	Approx. 10 minutes
Diameter of measurable conductor	40 mm max.
Weight	200 g (0.441 lb)
Dimension	176 mm x 70 mm x 25 mm (6.9 in x 2.8 in x 1 in)
Operating altitude	2000 m (6,562 ft)

Electrical Specification

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

AC Current Measurement

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

Mean value detection and rms-value calibration.
Accuracy specified at 50/60 Hz
Frequency range 15 Hz to 150 Hz

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