

Leakage Clamp-on Testers

30032A



- AC Leakage
- ∅ 40
- AC/3mA~60A
- Filter

30031A



- AC Leakage
- ∅ 40
- AC/3mA~60A

30032A

- Can measure leakage AC currents of 1mA
- Filter function can cut off harmonics-currents components from 2nd order
- Filter function select on or off

AC current measurement

Filter function OFF

Accuracy: ± (% of reading + digits)

Range	Resolution	Accuracy	Maximum Allowable Current
3mA	0.001mA	0.010 <I ≤ 32.70mA: 1.0%+5	3.270mA
30mA	0.01mA		32.70mA
30A	0.01A	0.05 <I ≤ 50.0A:1.0%+5 50.0 <I ≤ 60.6A:5.0%+5	32.70A
60A	0.1A		60.6A

Filter function ON

Range	Resolution	Accuracy	Maximum Allowable Current
3mA	0.001mA	0.010 <I ≤ 32.70mA: 1.5%+5	3.270mA
30mA	0.01mA		32.70mA
30A	0.01A	0.05 <I ≤ 50.0A:1.5%+5 50.0 <I ≤ 60.6A:5.5%+5	32.70A
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Note: Input current of 2nd-order and higher harmonics
: 150 mA rms maximum in the 3 mA/30 mA range
: 62 A rms maximum in the 30 A/60 A range

Filter specifications (3 mA and 30 mA ranges and 30 A and 60 A ranges)

Amplitude ratio at 100 Hz: -38 dB (1.26%) or less (typical: -41 dB)
Amplitude ratio at 120 Hz: -53 dB (0.22%) or less (typical: -56 dB)

Zero correction

3 mA range: Displays 0.000 mA (zero) when 0.010 mA < I
30 A range: Displays 0.00 A (zero) when 0.05 A < I

General Specifications

Parameter	Specification
Method	Mean-value detection and rms-value calibration
Display	LCD (Digital reading 3200 counts) Bar graph (32 segments)
Range switching	Range selection Auto or Manual
Data Hold	On all Range
Operating temperature and humidity	0 to 50°C, 80% RH or less (no condensation)
Temperature coefficient	Following values must be added in the temperature range of either 0 to 18°C or 28 to 50°C 0 ≤ I ≤ 50.0A: ± (0.08% of reading/°C + 0.5 digits/°C) 50.0 < I ≤ 60.6A: ± (0.3% of reading/°C + 0.5 digits/°C)
Effect of external magnetic fields	0.0005% typical value (in terms of the magnitude of current in adjacent wires)
Safety standard	Conforms EN 61010-1, EN 61010-2-032 CAT. III 300V
Circuit voltage	300 Vrms or less
Withstanding voltage	3.7 kV AC for one minute
Power supply	CR2032 lithium battery × 1
Power consumption	6mW maximum
Battery life	Approx. 90 hours
Automatic power-off	Power approx. 10 minutes after the last switch operation.
Dimensions	Approx 70 (W) × 178 (H) × 25 (D) (mm)
Weight	Approx 200 g (including the battery)
Accessories	User's manual, Battery, Soft carrying case (RB057)

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- Standard AC Leakage model

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