

Leakage Clamp-on Testers

30031



Compact

AC A
60/80Hz

3mA-60A

∅40

AC Leakage

30031

- Can measure leakage currents of 1 mA, which is useful for checking the insulation of low-voltage circuits and electrical components.
- Can measure a broad range of currents from leakage currents (at a resolution of 0.001 mA) to load currents up to 60 A.
- Typical influence (on the current value of an adjacent cable) from an external magnetic field is 0.0005%.
- Durability of clamp: More than 50,000 opening/closing events
- Twice the torsional strength of Yokogawa M&C's earlier model clamps
- The clamp lever is lengthened by 30%, enabling smooth opening/closing of the clamp even for thick cables of 40mm in diameter.
- Approved for conformity to safety standards EN 61010-1 and EN 61010-2-032 (CAT III 300V, pollution degree2)

Specifications

At 23°C±5°C, 80%RH or less
Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

AC current		3/30mA, 30/60A
Frequency characteristics		50/60Hz
Accuracy*	50/60Hz	1.0 + 5 (0-30mA)
		1.0 + 5 (0-50A)
		5.0 + 5 (50-60A)

General Specifications

Method of detection	Mean value
Display	LCD (Digital display: 3200 counts) (Bar-graph display: 32 segments)
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 or less
Safety standard	Approved for conformity to EN 61010-1, EN 61010-2-032
Withstanding voltage	3.7 kV AC for one minute (core and case, and core and output terminals)
Power supply	One CR2032 (Coin-shaped) 3 V battery
Battery life	Approx. 90 hours (when continuously used)
Auto power-off	Approx. 10 minutes
Diameter of measurable conductor	40 mm at maximum
Dimensions	Approx. 70(W)×176(H)×25(D) excluding protrusions
Weight	Approx. 200 g
Accessories	Instruction manual, battery, soft case

Clamp-on Testers

96001



20Hz~20kHz

AC A

∅33

96001

- Compact and light with high-performance
- 20Hz to 20kHz wide frequency characteristics
- Can be connected to a digital multimeter
- Need not be connected to a power source
- Fit to waveform measurement using oscilloscopes and oscillographic recorders

Specifications

Measuring range	0 to 400 A ACrms (600 A peak)	
Output voltage	0 to 4 V ACrms (10mV/A)	
Accuracy (at 23°C±5°C, sine wave input)	(amplitude)	±1.5% of rdg ±0.4mV (20Hz to 40Hz) ±1.0% of rdg ±0.2mV (40Hz to 1kHz) ±(0.8-0.2 × f kHz)% of rdg ±(0.2+0.04 × f kHz)mV (1 to 20kHz)
	(phase)	Within ±3.0° (40Hz to 1kHz)
	Temperature coefficient	0.05% /°C in a range of 0°C to 18°C and 28°C to 50°C
Output impedance	Approximately 30Ω	
Load impedance	100kΩ min./100 pF max.	
Effect of external magnetic field	2mV(0.2A) or less at 400A/m	
Voltage of circuit under measurement	600V ACrms maximum	
Diameter of applicable conductor	Maximum diameter of 33 mm	
Operating temperature and humidity limits	0°C to 50°C, 80% R.H. max. (non-condensing)	
Storage temperature limits	-20°C to 60°C (non-condensing)	
Withstanding voltage	3.7kV AC for one minute (core and case, and core and output terminals)	
Safety	Conforms to IEC 1010.	
External dimensions	Approximately 70(W)×130(H)×30(D)mm	
Weight	Approximately 220g	
Output cord length	Approximately 2.5 meters (with banana plug)	
Accessories	One portable case and one instruction manual	

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[96001](#)

[Accessories](#)