

S-070 AC Clamp



- Numerous applications
- Can be used as a transmitter or a receiver to locate cable faults
- Can be paired with all kinds of electrical instruments for measurements
- Current leakage, phase detection, power, high harmonic current, etc.
- Convenient
- Can be attached to an insulation rod
- Resolution: 0.01mA AC

DESCRIPTION

S-070 AC Clamp meter is a newly designed patented product (with both utility and design patent). Not only can it be used as a regular clamp on a clamp meter to take measurements of electrical systems, but it can also be used as a transmitter or receiver for cable identification/location. Unlike other current clamps, S-070 can be connected to an insulating rod and clamp around cables that are hard to reach, which can be convenient for clamp tests of overhead lines or cables in trenches, which also makes it a safer alternative.

The magnetic core of the current clamp is made of nickel alloy, with high permeability and high linearity, wide frequency range and external magnetic field have little to no effects on the results.

APPLICATION

S-070 is a versatile product that can be used as a transmitter/receiver in cable identification, or it can be used for electrical metering applications to inspect primary current-carrying conductors without disconnecting wires or breaking the monitoring circuit.

SPECIFICATIONS

Functions	Can be used as all kinds of transmitter/receiver such as cable identifier, pipeline locator, cable fault locator, high voltage grounding fault finder, etc.
	Can be connected to a high voltage energy meter, multimeter, electricity meter, phase detection analyzer, industrial control device, data recorder, oscilloscope, harmonic analyzer, power quality analyzer, or digital multimeter
	AC current, leakage current, high harmonic current, phase, electric energy, power, power factor, and other types of detection, transmission, and reception
Patent Characteristics	The clamp head is designed to be small at the top, and gradually thickening towards the axis, so that it is easy to fit through gaps between the cables that are very small
	The current clamp can be connected with the insulation rod to take measurements of cables that are hard to reach or hazardous. The operators do not need to go down to unsafe environments anymore. The operator simply holds the insulation with one hand and uses the other hand to pull down the output lead then the clamp jaw will be opened
Measure Method	Clamp type CT
Jaw Size	Φ70mm (or 105mm)
Current Range	AC 0 ~ 300A
Resolution	0.01mA AC
Turn Ratio	1000 : 1 (can be customized)
Output	1mA/1A (can be customized)
Accuracy	0.5 (50Hz/60Hz; 23 °C ± 2 °C, <70%RH testing cable positioned in the center of the clamp)
Phase Error	≤ 0.5° (50Hz/60Hz; 23 °C ± 2 °C)
Magnetic Core Cross-Section Size	13mmx7mm
Reference Load	RL: 0 ~ 300mA ≤ 1kΩ; 0 ~ 3A ≤ 100Ω; 0 ~ 30A ≤ 10Ω; 0 ~ 300A ≤ 1Ω

Input Direction Indication	2 arrows at both sides of the clamp to indicate the current or other signal's direction
Output Method	Detects electric current in a wire and generates a signal proportional to that current
Output Port	Aviation plug, audio plug, red and black banana plug, standard 4mm multimeter plug (or other interfaces can be customized)
Output Connection Wire Size	Diameter $\phi=7\text{mm}$, length=4m (Length can be customized)
Wire Positioning	The measured wire should be positioned in the center of the clamp
Magnetic Core Frequency Characteristic	10Hz~300kHz (wide frequency range)
Circuit Voltage	Without an insulation rod: the circuit must be below AC 1000V With insulation rod: bare wire AC below 65kV; however, any voltage level can be measured for cables with insulating sheath
Insulation Rod Length	3m (optional)
Dimension	LWT=250mm×140mm×38mm
Weight	676g
Ideal Working Conditions	-20℃~50℃; below <80%RH
Ideal Storage Conditions	-10℃~60℃; below <70%RH
Insulation Strength	AC 2000V/RMS (between the top and the bottom of the housing)
Safety Standards	IEC1010-1、IEC1010-2-032、Pollution class 2、CAT III (600V)

ACCESSORIES & ORDER DATA			
Description	Order Code	Description	Order Code
S-070 AC Clamp, 1 pc	S-070	Included accessories for S-070	
		Package box, 1 pc	
		User manual, Warranty card,	
		Certificate of Conformity, 1 copy of each	

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S-070

AC Clamp

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