

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: 0.01mAAC

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

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| 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 | 0.01mAAC |
| Turn Ratio | 1000: 1 (can be customized) |
| Output | 1mA/1A (can be customized) |
| Accuracy | 00.5 (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 |

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| 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×140m×38mm |
| Weight | 676g |
| Ideal Working Conditions | -20°C ~ 50°C; below <80%RH |
| Ideal Storage Conditions | -10°C ~ 60°C; 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

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