

Difference Between Sisco Clamp Ammeters, Earth Leakage Clamp Meters and Digital Clamp Meters



Champaign, Illinois Mar 13, 2023 ([Issuewire.com](https://www.issuewire.com)) - Sisco Clamp Meters have clamp ammeters, earth leakage clamp meters, and digital clamp meters. These 3 types of clamp meters all use a clamp-like device to measure electrical current. However, they differ in their specific functions and capabilities. Next, this article will introduce these three clamp meters in detail.

Clamp Ammeters:

Clamp ammeters, also known as current clamp meters, are used to measure the current flowing through a conductor without breaking the circuit. They have a clamp-like device that can be opened and closed around the conductor to measure the current. They typically measure AC and DC current and may also have additional functions such as measuring voltage, resistance, and frequency.

Earth Leakage Clamp Meters:

Earth leakage clamp meters are designed to measure the amount of leakage current in an electrical circuit. They are typically used to identify electrical faults and to ensure that electrical systems are properly grounded. [Sisco Leakage Clamp Meters](#) have a clamp-like device that can be opened and closed around the conductor to measure the leakage current. They are particularly useful for testing the insulation resistance of electrical equipment and circuits.

Digital Clamp Meters:

Digital clamp meters are a versatile type of electrical measuring instrument that can measure current, voltage, resistance, frequency, and other electrical parameters. They have a clamp-like device that can be opened and closed around the conductor to measure the current. They typically have a digital display that shows the measurement values. [Sisco digital clamp meters](#) are available in a variety of models with different ranges and capabilities.

According to the above description, it can quickly summarize the two biggest differences between the three types of clamp meters as follows:

The measurement range is different.

Clamp ammeters can directly measure AC and DC currents. The measuring range of [Sisco Clamp Ammeters](#) are 0.00mA~10000A.

The clamp leakage current meter, as the name implies, is used to measure the leakage current on the line. It is mostly used in distribution boxes or branch lines to directly measure the leakage of the line under the condition of continuous power supply. The measuring range is 0.00mA~2000A.

In addition to measuring AC and DC current (0~1000A), the digital clamp meter can also measure AC and DC voltage (0~1000V), and resistance value 0-2000MΩ.

Measurement wiring methods are different.

When the clamp-on ammeter measures single-phase current, it only needs to clamp the wire to measure the current value, and the ground current or small current flowing through the ground wire can be measured in this way.

When using a clamp-on leakage current meter to measure the leakage current in an unbalanced circuit, clamp the clamp of the clamp-on meter to the phase line and the neutral line in the line at the same time. When measuring current, the digital clamp meter also uses the method of clamping the wire to measure, but when measuring voltage and resistance, it uses the method of multimeter to measure with positive and negative electrode test heads.

In summary, Sisco clamp ammeters are used to measure current, Sisco earth leakage clamp meters are used to measure leakage current, and Sisco digital clamp meters are a versatile type of electrical measuring instrument that can measure multiple electrical parameters.



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