

Non-contact current measurements up to 200 A with the handy clamp meter PCE-CM 5



Current clamps are used for non-contact measurement of the electrical current of current-carrying conductors and have the great advantage that the measurement can be carried out during operation - in contrast to direct measurements which require opening of the circuit to be measured. Accordingly, in the latter case the system must not be put into operation during the measurement. The most common clamp meters are current clamps for alternating current. The basic principle is as follows: along each electrical conductor through which a current flows, a magnetic field is generated linearly to the flowing current. The advanced clamp meter PCE-CM 5 determines the strength of this magnetic field with the

help of a kind of transformer and can thus determine the current strength of alternating currents indirectly and very precisely. In addition, the meter's "Not Connected Voltage" function indicates by means of an optical signal whether or not a voltage is present on a line. Again, no measurement preparation is necessary during operation. The risk of electric shock is reduced to a minimum by this further special feature of the clamp meter. The PCE-CM 5 is a fork-type clamp meter and stands out by its unusual design with an open fork. It thus enables simple, fast measurements on conductors. As it has no moving parts, this type of current clamp meter is less sensitive to contamination and mechanical defects than others.

PCE Instruments is always keen on having both new and proven clamp meters in its product range and with the cost-effective and versatile PCE-CM 5, the company has added a practical tool for comprehensive applications which even allows current measurements up to 200 A AC. With its dimensions of only 201 x 65 x 43 mm, the fork clamp meter has a very compact design and can also measure resistance or carry out continuity tests with the connected measuring tips. This allows, for example, testing a relay in a switch box. Temperature measurements are also possible with the thermocouple which is also included in the standard delivery. The versatile features make the PCE-CM 5 an indispensable tool and a useful addition to your pool of equipment.

More information can be found here:

https://www.pce-instruments.com/english/measuring-instruments/test-meters/clamp-meter-kat_40102.htm