

# OPTION 151-25 *Current Coil*



- **For AC DC clamp ammeters calibration up to 3000 A**
- **Multiplying coefficient x25**
- **Option for series M &-151 / M &-133C**

## **Technical data**

Maximum input current	120 A
Number of windings	x 25
Accuracy:	± 0.3 % for DC current ± 0.3 % for AC current to 100 Hz
Temperature range	5 °C - 40 °C
Weight	approx. 4 kg
Min. cross section area of the post	30 x 44 mm
Indication of overheating	
External power supply adapter	

*Note: Range of applicable current versus frequency ratio can be limited by loading features of tested clamp ammeter, due to exceeding max. compliance voltage of the calibrator in current mode. Load impedance of current coil is created of combination of current coil impedance and magnetic coupling of ammeter tongs.*

**OPTION 151-25** is 25 turn current coil. It is created by copper wire coil of circular form. Current coil is equipped with two instrument terminals.

In connection with calibrators series **MC-151 / MC-133C** AC and DC clamp ammeters can be calibrated in range to 3000 A. The coil has to be connected to the current output terminals +I and -I in calibrator through cables.

### **WARNING**



#### **To prevent possible electrical shock, fire, or personal injury:**

- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- Do not connect the Coil to voltages more than 5 Vrms to earth.
- Do not touch the Coil while is use.
- Do not use, and disable the Product if it is damaged.

## Used symbols on the Product:



Hazardous voltage.



Risk of Danger. Important information . See manual.



Caution. Hot surface.



Do not dispose of this product as unsorted municipal waste.

## How to Use the Coil.

Current coil must be used with power supply adapter 12V DC. It is necessary for cooling, especially at higher currents. If the red LED indicates thermal overload, disconnect the coil from the power supply and let the fans to reduce coil temperature. It is recommended to use special adaptors with MC151 and MC133C calibrators to reduce the voltage drop on connecting cables.

Clamp ammeters are based on the current transformer with different degrees of magnetic coupling between the primary and the secondary circuit. Therefore there is certain dependency on the relative position of the coils and ammeter. Specified accuracy is guaranteed only if the clamp ammeter clamp is used in accordance with manufacturer's instructions. If possible, the coil should be in the center of the clamp during calibration, as shown below.

