

OPTION 140-50 *Current Coil*



- For clampmeter calibration up to 1500 A
- Multiplying coefficient x50, x25
- Option for M14x series & M133C Calibrators

ANALOG
DIGITAL



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Technical data

Maximum input current	20 A unlimited, 30 A / 5 min
Number of windings	x 25, x 50
Accuracy:	$\pm 0.3 \%$ for DC current $\pm 0.3 \%$ for AC current to 100 Hz
Temperature range	5 °C - 40 °C
Weight	approx. 1,2 kg
Cross section area of the post	25 x 13 mm (25 turns) 24 x 26 mm (50 turns)
Dimensions:	195 x 125 x 40 mm

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 jaws.

OPTION 140-50 is 50 and 25 turn current coil. It is created by copper wire coil of circular form, which is encapsulated in epoxy foam. Current coil is equipped with three standard instrument terminals.

In connection with **M14x** multifunction calibrator series and **M133C** Power Calibrator, AC and DC clamp ammeters can be calibrated in range up to 1500 A. The coil has to be connected to the current output terminals +I and -I in calibrator through cables. To avoid additional errors during calibration of clamp ammeters recommended mutual position of current coil to device under test is shown on following figure. Calibration of clamp ammeters should be performed on place where no magnetic conductive parts are presented otherwise error due to distortion of magnetic field around coil can influence uncertainty of calibration.

