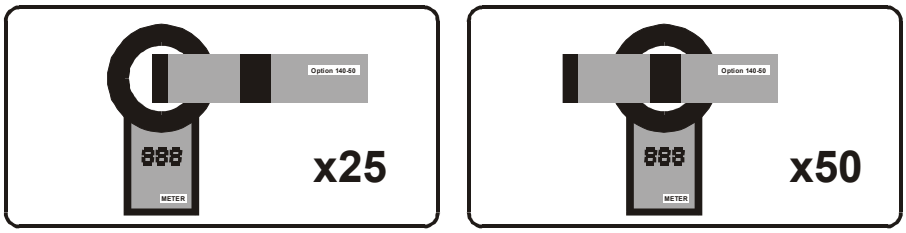
140-50 Current Coil x50

HIGHLIGHTS

- **Designed for calibration of AC/DC clamp ammeters up to 1500A**
- **Dual multiplier x50, x25**
- **Simple, cost saving**
- **Low voltage drop**

DESCRIPTION

140-50 Current Coil has two separate negative terminals for x25 and x50 coil circuits and one joint positive terminal. Clamp meters should be calibrated in safe environment where no magnetic conductive parts could interfere with current coil's magnetic field and thus influence uncertainty of calibration. Clamp meter should be positioned as in the pictures below for best results.



GENERAL DATA

Rating	20 A continuously 30 A for 5 min maximal
Number of coil turns	x 25, x 50
Accuracy	± 0.3 % for DC current ± 0.3 % for AC current up to 100 Hz
Typical x25 coil impedance*	50/60 Hz: 77 µH + 25 mΩ 1 kHz: 77 µH + 37 mΩ
Typical x50 coil impedance*	50/60 Hz: 170 µH + 50 mΩ 1 kHz: 170 µH + 75 mΩ
Cross section area of the post	25 x 13 mm (25 turns) 24 x 26 mm (50 turns)
Operating range	5 °C – 40 °C
Dimensions (W x H x D)	195 x 125 x 40 mm
Weight	approx. 1,2 kg

* Connecting a clamp meter to 140-50 Current Coil increases its total impedance, which in turn increases voltage drop at coil terminals for any given current and frequency combination. Increasing voltage drop beyond max. compliance voltage of current source (f.e. multifunction calibrator) will cause the current source to overload and trip. If this happens, reduce amplitude and/or frequency of set current to decrease voltage drop down below compliance voltage limit.