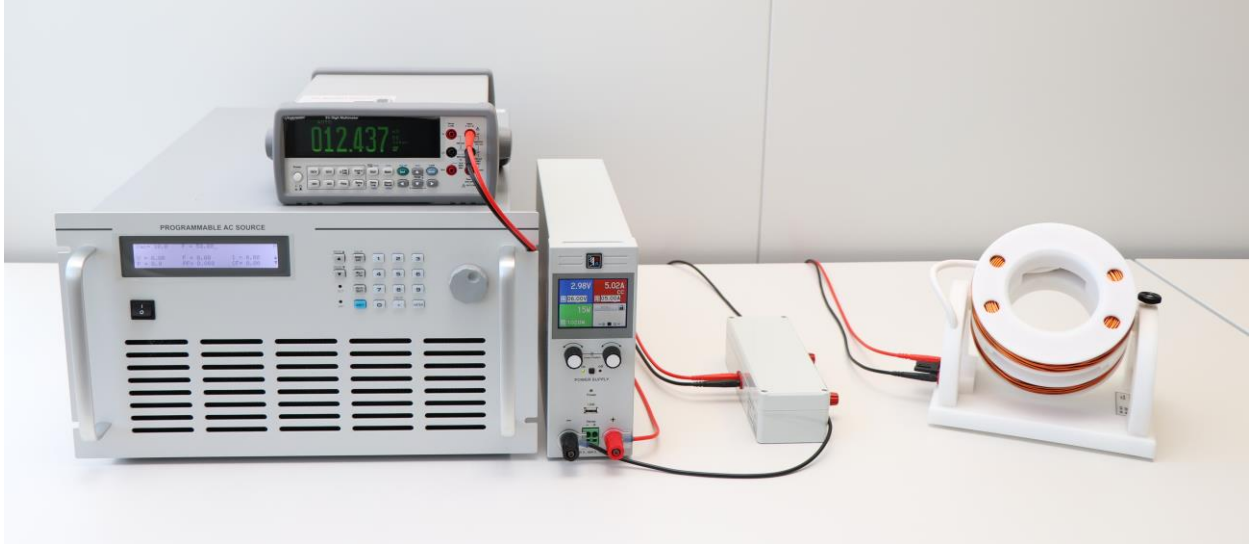




montena

Helmholtz Coil



This Helmholtz coil is specially designed to test the immunity of watches to DC magnetic fields, for instance according to ISO 764 or to NIHS 90-10. Strong AC fields can also be tested with this Helmholtz coil associated with a power signal generator and accessories (delivered as an option). The orientation of the coil can be easily changed in order to test the 3 directions of the field.

SPECIFICATIONS

Coil type	HC11
Internal diameter	10 cm
Max. field in the centre	50 kA/m @ 40 A (or 63 mT or 625 G)
Maximum current	20 A (continuous) / 40 A (1 min.)
Coil factor¹ (coils in series)	1.25 ±0.05 kA/m / A
Resonant frequency	> 200 kHz
Temperature elevation	30 °C after 5 min @ 20 A
Field homogeneity	± 5 % (in a 5 x 5 x 5 cm volume)
Linearity	< 1 %
Construction type	non-magnetic (plastic)
Connectors	4 mm banana
Dimensions (L x W x H)	24 x 18 x 22 cm
Weight	7.0 kg

⁽¹⁾ The coil factor is a parameter only valid for DC. It is nevertheless valid for a certain frequency range but not up to the resonant frequency.