

High Frequency Current Transformers

For online PD measurements in MV, HV and EHV networks



- Split-core and permanent HFCT's available
- Can be used for HF, VHF and UHF application
- Easy to install

DESCRIPTION

The Megger High Frequency Current Transformers (HFCT) are designed for decoupling of PD signals and can be used for multiple applications in MV, HV and EHV range. The HFCT sensors are attached around the cable / accessories earth connection e.g. a cable earth screen.

The HFCT's can be used as an inductive PD coupler, were it is originally designed for, in the frequency range from 100 KHz up to a maximum of 150 MHz (model dependent). In addition the HFCT sensor can also be used as a UHF antenna for local PD measurements of MV and HV components. The Megger UHF PD detector can be used to take the readings, ideally in a frequency range from 300 MHz up to 1 GHz.

Megger offers permanent as well as split-core HFCT sensors. Permanent HFCT sensors are ideal for those assets where permanent monitoring is required or where getting outages are almost impossible. Having pre-installed HFCT sensors in this case will allow online PD monitoring without the need of an outage. The split-core HFCT's are ideal for spot testing where there is direct access to the earth screen. The split-core HFCT's can also be used inside switchgear cabinets, but then in most cases, as of safety reasons, an outage is required.

FEATURES

- Ideal for periodic or permanent online PD measurements
- Low-Cost alternative for UHF PD Sensors
- High measuring bandwidth
- Several diameters available
- Wide application range

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TECHNICAL DATA*

	HFFCT 20	HFCT SC40	HFCT SC60
Frequency range (-3 dB)	100 kHz – 150 MHz	100 kHz – 20 MHz	100 kHz – 20 MHz
Transfer-impedance (1 MHz)	ca. 4.2 Ohm	ca. 4 Ohm	ca. 4 Ohm
Inner diameter	Ø 21 mm 0.83 in.	40 x 22 mm 1.57 in. x 0.87 in.	Ø 60 mm 2.36 in.
Dimensions (WxHxD)	72 x 48 x 26 mm 2.83 in. x 1.89 in. x 1.02 in.	85 x 93 x 22 mm 3.35 in. x 3.66 in. x 0.87 in.	116 x 145 x 21 mm 4.57 in. x 5.71 in. x 0.83 in.
Inner core	fix	Split-able	Split-able
Max. 50 Hz current	20 A	20 A	20 A
Connection	Coaxial cable 3.5 m with BNC (50 Ohm)	BNC (50 Ohm)	BNC (50 Ohm)
Weight	240 g (incl. cable) 0.53 lbs.	250 g 0.56 lbs.	500 g 1.11 lbs.
Operating temperature	-20 °C ... 55 °C -4 °F ... 131 °F	-20 °C ... 55 °C -4 °F ... 131 °F	-20 °C ... 55 °C -4 °F ... 131 °F
Application area	indoor	indoor	indoor



HFFCT 20



HFCT SC40



HFCT SC60

ORDERING INFORMATION

Product	Order no.
HFFCT 20	1006296
Permanent mini current coupler	
HFCT SC40	1009667
Split-core current coupler	
HFCT SC60	1012681
Split-core current coupler	
Options:	
BNC Coaxial cable for HFCT SC40 or 60 (5m)	502020108

*We reserve the right to make technical changes