



The High Frequency Current Transformer type HFCT100 sensor can be used with portable on-line partial discharge (OLPD) test units and permanent OLPD monitoring systems.

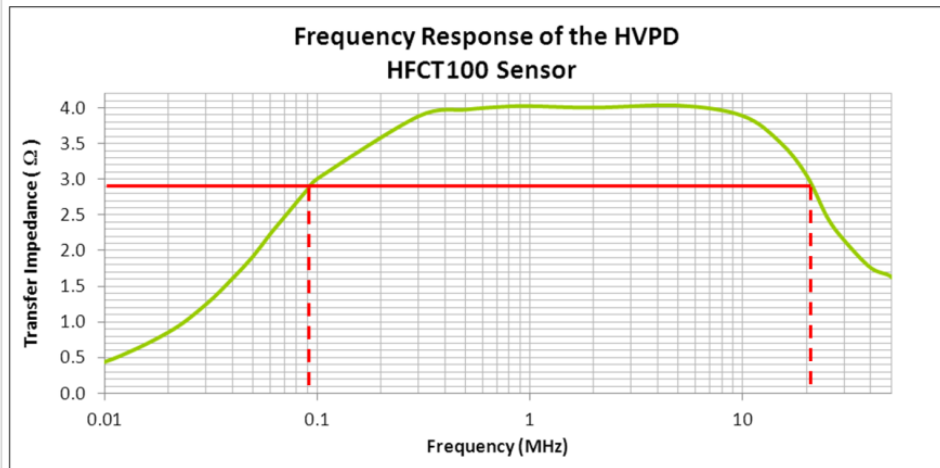
This inductive medium-size, split-core sensor can detect and measure PD in cables, switchgear, transformers and rotating machines.

The sensor is suitable for connection around:

- Earth-straps or insulated cores of most medium-voltage (MV) cables
- Earth-straps of high-voltage (HV) cables

Features

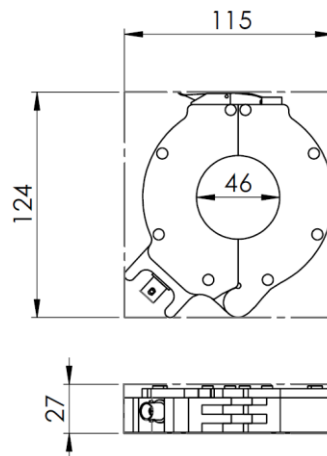
- Measures net (common mode) radio-frequency PD current signals flowing in the earth-straps of the MV/HV plant, without requiring a direct connection
- Preserves the pulse-shapes of cable PD and low-frequency PD down to 100 kHz
- Enables highly sensitive OLPD measurements to be made in picocoulombs (pC)
- Allows for OLPD measurements to be made at any time, without the need to open the cable box for live access (uses an N-type or BNC Point-of-Attachment (POA) connection point outside of the cable box/switchgear panel)



Technical Specification

Transfer Impedance, Tr	3.9 mV/mA ±5%
-3 dB Frequency Response	100 kHz – 20 MHz
Drop Time	5 μs ±5%
Typical Risetime Response	22 ns ± 5%
Recommended Load Impedance	50 Ω
Material/Finish	HDPE Black
Output Connector	BNC Female
Max 50 Hz Current	80 A

Unit Dimensions



Inner diameter	46 mm
Width	115 mm
Depth	46 mm
Height	124 mm
Weight	0.4 kg