

HFCT series

High Frequency Current Transformer Clamp

The HFCT-HD series of sensor clamps are high frequency type current transformers designed for partial discharge detection on electric apparatus' ground returns. Their new design implements years of research and development and field application experience. Two models are available to better suit your application whether it be field or lab. The HFCT sensors are the perfect fit for ndb's XDP-II™, PD Annunciator™ and AE-150™ partial discharge systems.

Highlights

- Built-in noise filtration circuits
- Shielded & rugged
- Split-core design for easy installation
- Convenient latch system
- Permanent or temporary installation
- Standard BNC type connector
- Weatherproof IP66

Free interactive presentation:



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Technologies



High Performance PD Detection

- The HFCT-HD series are well-thought out and high precision manufactured sensors
- High immunity to noise found in substation environment
- Convenient latch design for easy manipulation, even with gloves
- 20+ years experience in partial discharge detection and analysis

Technical Specifications

Sensitivity	
Transfer Impedance (15 MHz, 50 Ω, 25°C)	14.5 mV/mA ±10%
Max AC current (60 Hz)	33A
Bandwidth (-3dB)	<ul style="list-style-type: none"> • Low: 1.0-2.5 MHz, High: 40 MHz ± 15% • Low: 1.0-2.5 MHz, High: 80 MHz ± 15%
Connector	BNC coaxial
Operating Temperature	-20 to 85°C (0 to 95%RH non-condensing)
Storage Temperature	-40 to 85°C
IP Rating	IP66
Altitude	2000m maximum
Dimensions/Weight	71.2 x 71.2 x 25.4mm - 0.30kg 117.9 x 150.6 x 24.3mm - 0.70kg
Approval	CE



Metalclad cabinet

Portable, split-core HFCT sensors are an effective solution for partial discharge measurement and monitoring for metalclad cabinet such as switchgear, ring main unit, cable box, etc.. Pairing ndb's HFCT-HD sensor with the PD Annunciator™ allows for permanent 24/7 partial discharge monitoring with alarm capabilities.







Partial Discharge Localization

The HFCT-60HD sensor is perfectly suited for ndb's AE-150™ partial discharge localization system for power transformer. This pinpointing device requires high-quality and accurate PD signals measurement, which the HFCT-60HD™ provides. Its diameter of 60mm allows measurement on any grounding cable/strap found near a power transformer. Need to leave the AE-150™ a few days for monitoring? No problem! The HFCT-60HD™ will resist the elements.



Field application

Partial discharge testing is part of your preventive maintenance plan? The HFCT-20HD™ and HFCT-60HD™ are the ultimate sensor to pair with your XDP-II™ expert partial discharge detector. With their rugged design, those sensors will stand years of measurements in harsh environment. Their premium latch system is easy to manipulate even when wearing gloves.

	HFCT-20HD-40MHZ	HFCT-20HD-80MHZ	HFCT-60HD-40MHZ	HFCT-60HD-80MHZ
Model				
Internal diameter	20 mm	20 mm	60 mm	60 mm
Cutoff frequency	40MHz	80MHz	40MHz	80MHz