



HSENS-H

High Frequency Current Transformer

HSENS-H

Durable Split-Core HFCT Sensor for Reliable Transformer Performance



Highly reliable and versatile HFCT sensor for PD monitoring in power cables and earth shields for detecting and analyzing PD signals that ensure accurate real-time insights into the health of critical electrical assets.

HSENS-H is a state-of-the-art High Frequency Current Transformer (HFCT) sensor engineered to deliver accurate Partial Discharge (PD) measurements. Its split-core design ensures easy installation, enabling it to be clamped around the earth shield, cable insulation, or looped-back cable shields based on the termination conditions. Built with an IP65-rated enclosure, it is highly durable and compatible with extreme environments. It is ideal for both online and offline PD testing, offering flexibility for diverse monitoring requirements. The integrated transient overvoltage protection safeguards the connected monitoring systems against voltage spikes, enhancing operational reliability.

HSENS-H has high sensitivity and wide frequency response, enabling the detection of even the smallest PD signals and providing detailed insights into cable performance and insulation health. It is designed to handle high load currents when clamped around cables without an earth shield, ensuring compatibility with a broad range of power systems. HSENS-H is compatible with most PD monitoring systems, making it a versatile solution for condition-based maintenance and early fault detection in critical electrical assets.

» Benefits

- Transient overvoltage protected
- Noise immunity IP65 rated
- Rigorously tested
- Split core for easy installation
- Stainless steel robust latch to keep the split core closed
- Customizable according to customer-specific applications
- Suitable for Online or offline PD measurements

» Features

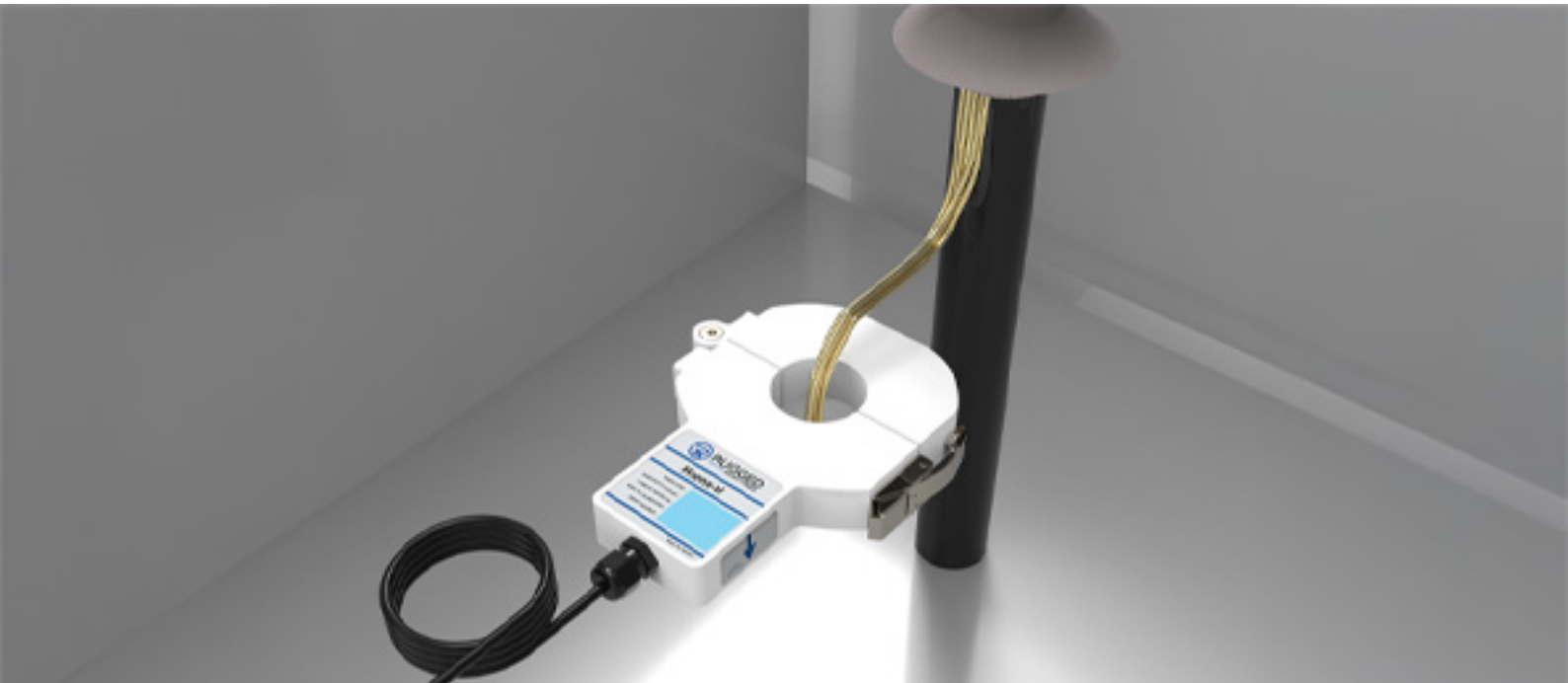
- Allows easy clamping around cables or shields without dismantling existing setups.
- Stainless steel robust latch to secure the split-core firmly in place.
- IP65-rated enclosure for reliable dust and water resistance.
- Integrated Overvoltage Protection
- Available with multiple internal diameter options to fit various cable sizes.
- Equipped with RG223 cable for reduced signal interference.

» Applications

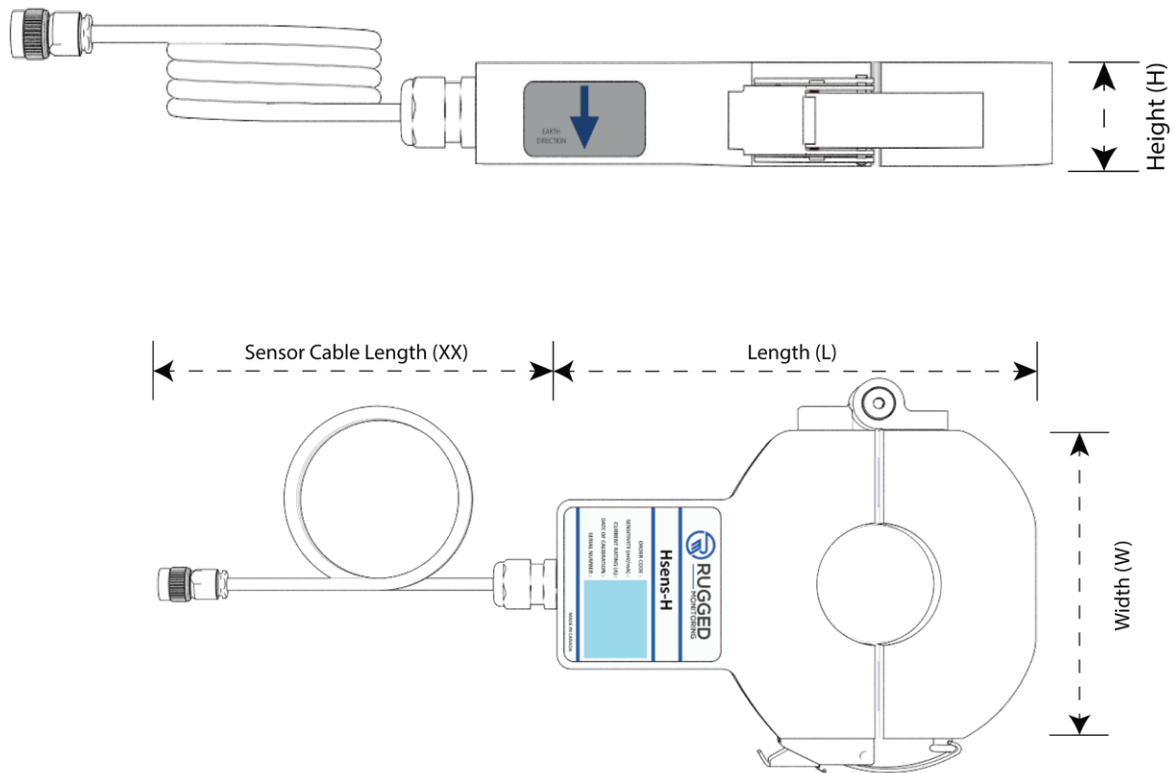
- Online periodic PD monitoring
- Offline PD measurement during HV AC testing
- Cables, joints, and terminations
- Rotating Machines
- AIS/GIS Switchgear
- Power Transformers

» Technical Specifications

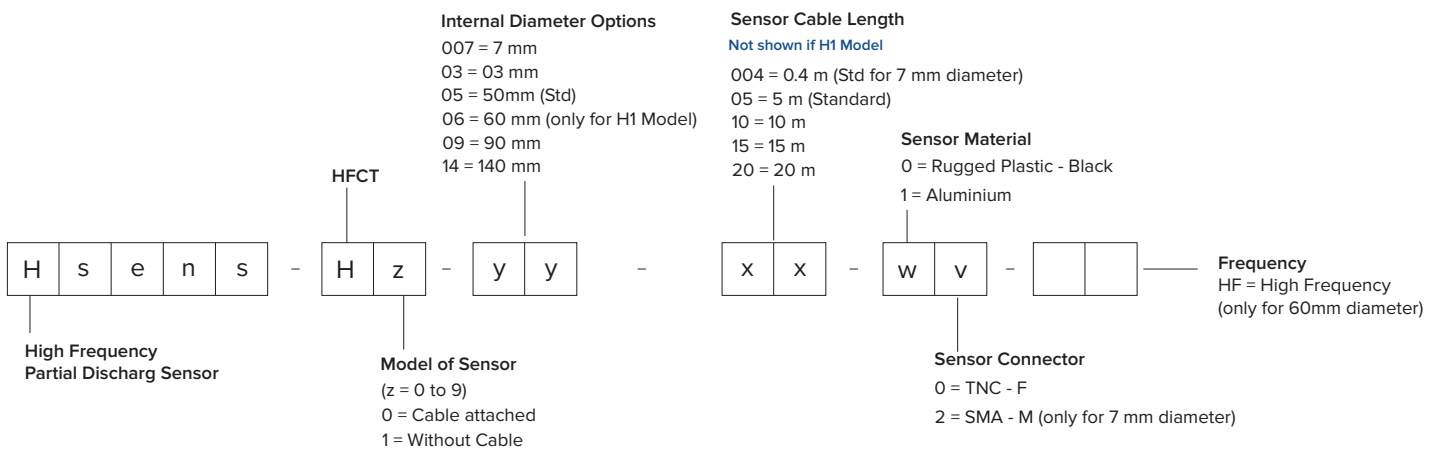
SENSOR	Type	Split Core Type
	Typical Frequency Response (-6dB)	>4mV/mA at 100kHz - 25 MHz (other frequency options available)
	Material	Rugged Plastic (Black), Other options available
	Current Ratings	50 A, other options available.
MODELS	HFCT - 007	52.25 mm (L) x 7.7 mm (W) x 15.50 mm (H) (ID=5.50mm)
	HFCT - 3	220mm (L) x 118mm (W) x 33mm (H) (ID=30mm)
	HFCT - 5	220mm (L) x 163mm (W) x 28mm (H) (ID=50mm)
	HFCT - 6	265mm (L) x 200mm (W) x 38mm (H) (ID=60mm)
	HFCT - 14	330mm (L) x 275mm (W) x 33mm (H) (ID=140mm)
SIGNAL CABLE	Type	RG223
	Connectors	TNC Female Connector
	IP Rating	IP65
TEMPERATURE	Ambient	-30°C to +70°C
	Storage	-40°C to +85°C



» Product Drawing



» Ordering Code



CERTIFICATIONS



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



Lloyd's Register



Atex Certification



NIST Certification



1415 Frank-Carrel, Sulte , 230, Quebec, QC-G1N , 4N7, CANADA

Asia Pacific | China | India | Middle East & Africa | Europe | North America | Latin America

+1-418-767-0111

info@ruggedmonitoring.com

www.ruggedmonitoring.com