

Ultrasonic Partial Discharge Sensor



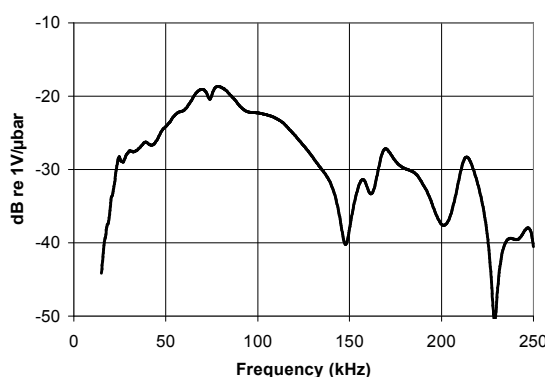
AS75I



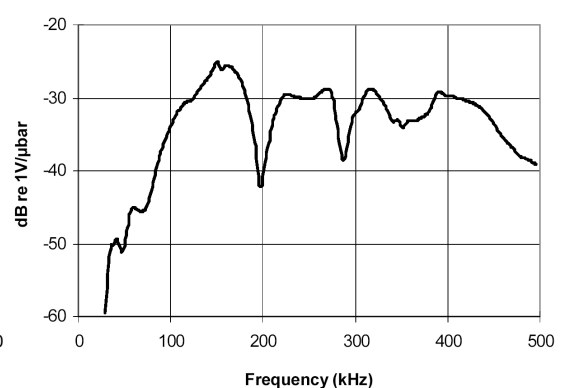
AS150I

The AS 75I and AS 150I are active sensors with very high sensitivity for measurements on GIS and transformer tanks. They have a built-in 40 dB preamplifier and can be connected to an additional preamplifier or directly to a PD test system. Power Diagnostix offers the preamplifiers RPA1D and RPA1G for the ICMsystem, ICMcompact, or ICMmonitor and the RPA1F for the AIAcompact.

Technical Data of the	AS75I	AS150I
Frequency Range:	20 kHz to 120 kHz	100 kHz to 450 kHz
Resonance Frequency:	75 kHz	150 kHz
Dimension (Height, Diameter): (without BNC-connector)	52 mm; 28.7 mm	31.5 mm; 28.7 mm
Power Supply:	+28 V _{DC} ≤ 21 mA (no signal) ≤ 55 mA (10 V _{PP} into 50Ω)	+28 V _{DC} ≤ 21 mA (no signal) ≤ 55 mA (10 V _{PP} into 50Ω)
Noise:	21 dB _{AE} (once per 5 s) referred to input	23 dB _{AE} (once per 5 s) referred to input
Temperature Range:	-40°C to +85°C	-40°C to +85°C
Grounding:	Case-isolated, with integral ceramic wear plate for electrical isolation.	

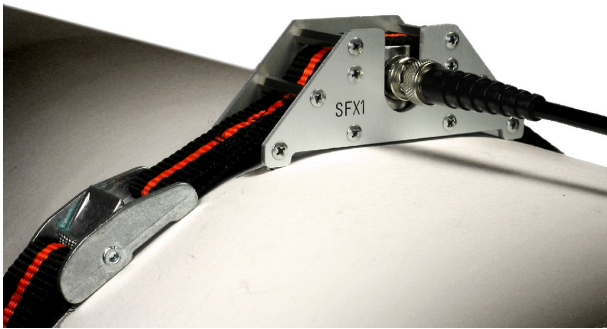


AS 75I



AS150I

Accessories



SFX1

Sensor fixture to secure the acoustic sensor on a GIS enclosure. Suited for the AS75I and AS150I



SFX2/50 for AS75I

SFX2/30 for AS150I

Magnetic sensor fixture for temporary mounting of the acoustic sensor on a transformer tank.



RPA1D / RPA1G / RPA1F

Preamplifier with a remote power supply and control, suited to feed and take signals from the AS75I and AS150I.

Z_i : 10 k Ω || 50 pF.
 f_{range} : 40 kHz to 800 kHz
 Output: 50 Ω line driver



External Switch

RPA1D/RPA1F: 15V, 28 V

RPA1G: Off, 15 V, 28 V