

IS-PDS-DV500

UHF Sensor for Transformer Partial Discharge Detection(Drain-Valve Type)



In oil-immersed transformers using insulating materials such as insulating oil, insulating paper, and pressboard, manufacturing defects or aging degradation of the insulating materials can lead to initial partial discharges due to weakened dielectric strength. These partial discharges can further weaken the dielectric strength over time, potentially causing unexpected major accidents.

The IS-PDS-DV500 is a drain valve-inserted sensor with excellent measurement sensitivity and external noise reduction performance. It can measure internal partial discharges of transformers by connecting to a system that detects insulation degradation in advance.

Technical Specification

Weight / Size	4.8 kg, 10K50A, Φ 40 X 460 mm (Adjustable Length)
Connector	N-type (Female)
Temperature	-55 ~ +85°C
Frequency Range	300MHz ~ 1,800MHz
Impedance	50 Ω
Return Loss(S11)	Standard S11 Loss \pm 3dB
Sensor Hydro Pressure	7bar (0.7MPa) JIS F7400

Return Loss (S11)



Features

Real-time condition monitoring of power equipment through real-time partial discharge measurements

Convenient maintenance with installation on transformer drain valve

Enhanced sensitivity and reduced external noise using UHF band measurement method