

IS-PDS-GE209

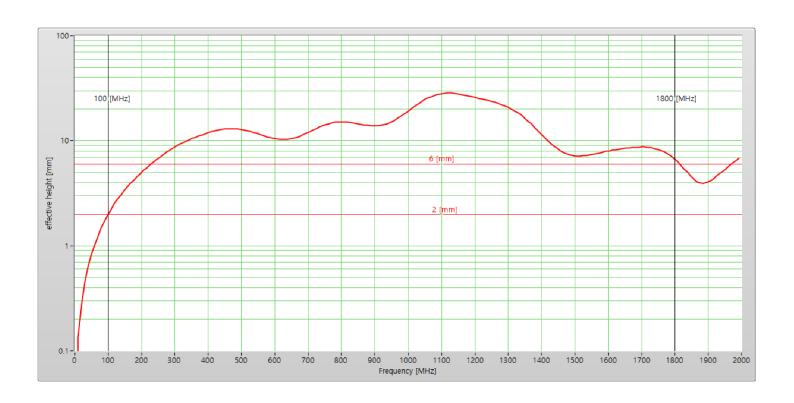
External UHF PD Sensor for GIS (Spacer Type)



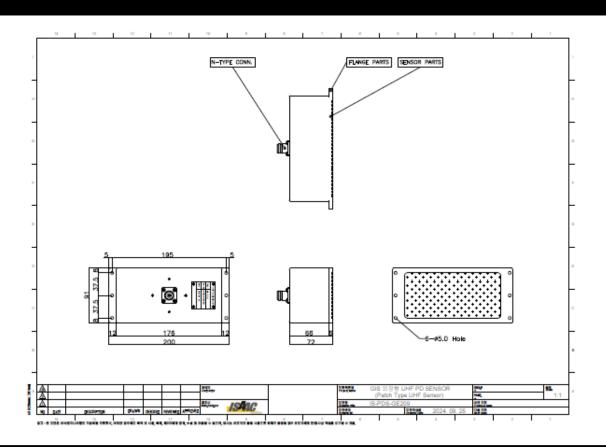
Insulation defects occur due to electrical/mechanical stress and other environmental factors, with the occurrence patterns of partial discharge varying depending on the type of defect. In the case of Gas Insulated Switchgear (GIS), defects such as conductor and outer casing protrusions, and spacer cracks may occur during manufacturing, transportation, installation, and operation. IS-PDS-GE209 is installed in the GIS spacer to measure partial discharge signals in the UHF (Ultra High Frequency) band caused by internal GIS defects, enabling early detection of GIS faults and supporting reliable equipment operation.

Technical Specification				
Operation Frequency Range	100MHz ~ 1,500MHz			
Sensor Sensitivity	IEC60270 Apparent Discharge / Below 5pC PD Detection (Above -40dBm / 0.1uW, 50 Standard)			
Impedance	50			
Connector	IEC61169-16 / N-type (Female)			
Average Effective Height	100MHz ~ 1,800MHz / 13mm (500MHz ~ 1,500MHz / 17mm)			
Operating Temperature	-55 ~ +85°C			
Degree of Protection	IEC60529 / IP-56			
Dimensions	W 200mm x D 91mm x H 72mm, M4 x 6			

Average Effective Height



Layout



Product & Model Name

Patch Type UHF Sensor, IS-PDS-GE209

Test List

Cold / Dry heat / Damp heat, cyclic / Vibration



TEST REPORT



Dt&C Co., Ltd.

42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si Gyeonggi-do, Korea Tel: 031-321-2864, Fax: 031-321-0220





1. Report No: DRCKREL2410-0468

Customer

Name: ISAAC PDS

Address: #2705, 120 Heungdeokjungang-ro (Yeongdeok-dong, UTOWER),

Giheung-gu, Yongin-si, Gyeonggi-do

3. Use of Report : For quality control

Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GE209

Test Method Used: IEC 60068-2-1: 2007, IEC 60068-2-2: 2007, IEC 60068-2-6: 2007,

IEC 60068-2-30: 2005

Date of Test: October 01, 2024 ~ October 11, 2024

(Address : 28, Baengnyeong-ro, 20Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea)

Testing Environment: Temperature (22 ± 5) °C, Humidity (46 ± 9) % R.H.

9. Test Result: Refer to the attached Document

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This laboratory is not accredited for the test results marked. " * "

Affirmation Name : NamGyu Lee

Name: HeeKwan Jung

Technical Manager

Name: KiDeok Kim

The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

October 22, 2024

Dt&C Co., Ltd.

Accredited by KOLAS, Republic of KOREA

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

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Product & Model Name

Patch Type UHF Sensor, IS-PDS-GE209

Test List

Insulation resistance measurement & High voltage Test



TEST REPORT



Dt&C Co., Ltd.

Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
 Tel: 031-321-2664, Fax: 031-321-1664

Report No : DRCREL2410-0752

2. Customer

Name: ISAAC PDS

Address: #2705, 120 Heungdeokjungang-ro (Yeongdeok-dong, UTOWER),

Giheung-gu, Yongin-si, Gyeonggi-do

3. Use of Report : For quality control

Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GE209

Test Method Used : Request of customer

Date of Test: October 10, 2024

Testing Environment: Temperature (21 ± 4) °C, Humidity (46 ± 9) % R.H.

Test Result : Refer to the attached Document

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to KOLAS accreditation.

Affirmation			Technical Manager
Affirmation	Name : NamGyu Lee		Name : KiDeok Kim

October 22, 2024

Dt&C Co., Ltd.

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Product & Model Name

Patch Type UHF Sensor, IS-PDS-GE209

Test List

IP5X(Dust-protected) & IPX6(Protected against powerful water jets)



TEST REPORT



Dt&C Co., Ltd.

42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si Gyeonggi-do, Korea Tel: 031-321-2664, Fax: 031-321-0220





1. Report No: DRCKREL2410-0474

Customer

Name: ISAAC PDS

Address: #2705, 120 Heungdeokjungang-ro (Yeongdeok-dong, UTOWER),

Giheung-gu, Yongin-si, Gyeonggi-do

3. Use of Report : For quality control

Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GE209

Test Method Used : IEC 60529 : 2013

Date of Test: October 14, 2024 ~ October 15, 2024

Location of Test :

Permanent Testing Lab On Site Testing

(Address: 28, Baengnyeong-ro, 20Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea)

Testing Environment: Temperature (23 ± 4) °C, Humidity (46 ± 7) % R.H.

9. Test Result: Refer to the attached Document

Name : NamGyu Lee

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This laboratory is not accredited for the test results marked. " * "

Affirmation

Tested by

Technical Manager

Name : KiDeok Kim

The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

October 22, 2024

Dt&C Co., Ltd.

Accredited by KOLAS, Republic of KOREA

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Pages: 1 / 15