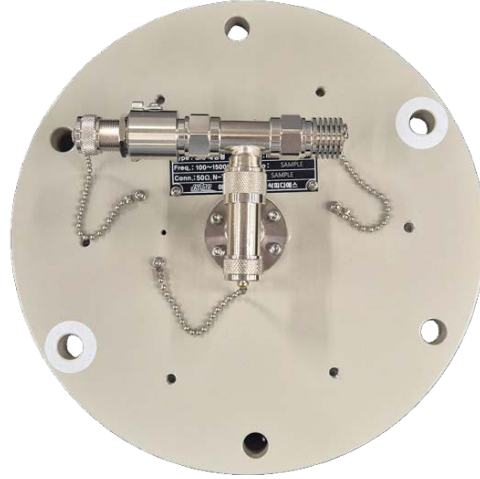


IS-PDS-GI255P

가스절연개폐장치(GIS) 내장형 UHF PD센서(Patch Type)



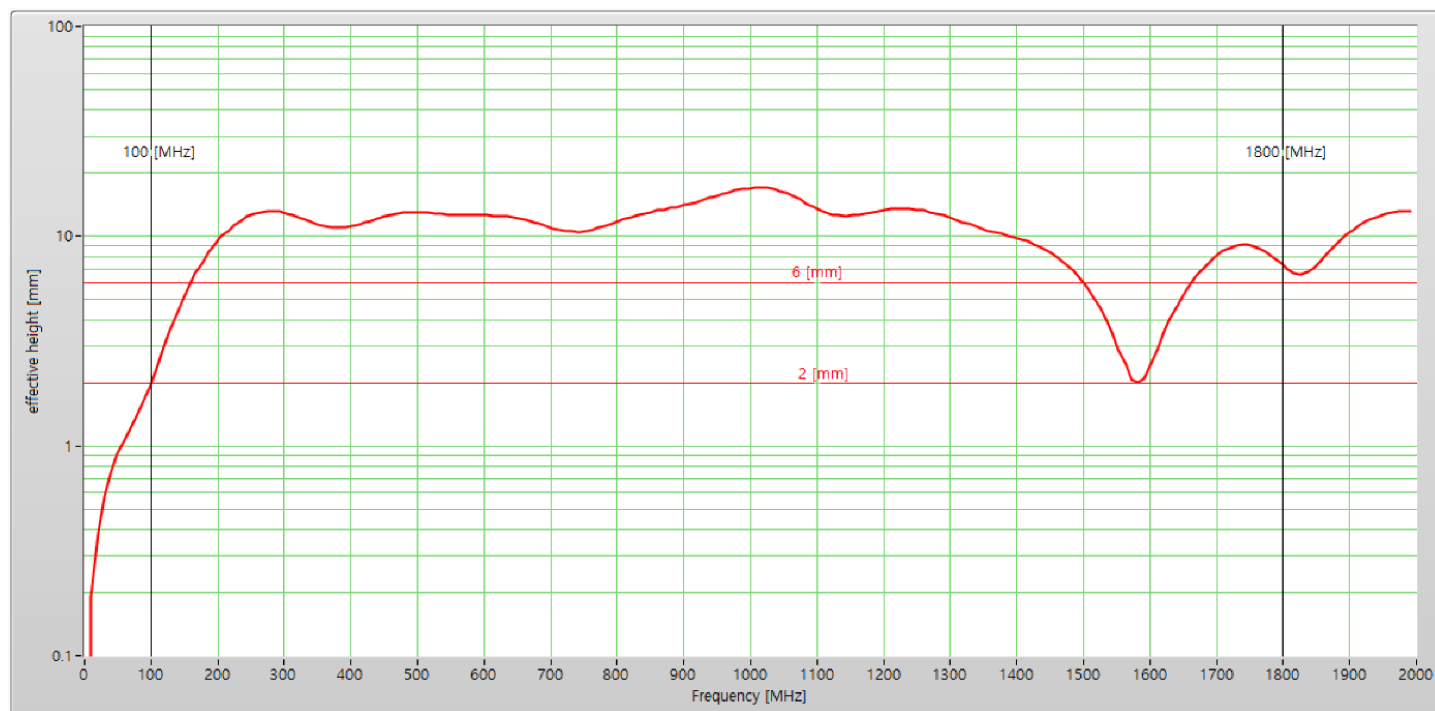
절연 결함은 전기적/기계적 스트레스 및 기타 환경적 요인에 의해 발생하며, 결함의 종류에 따라 부분 방전의 발생 패턴이 다르다. 가스절연 개폐장치(GIS)의 경우 제작 과정, 운반, 설치 및 운전 중 도체 및 외함 돌출과 스페이서 크랙 등의 결함이 발생한다.

IS-PDS-GI255P는 GIS 내부 결함으로 인해 발생하는 UHF(Ultra High Frequency) 대역의 부분방전 신호를 측정하여 GIS의 결함을 조기에 탐지하고 안정적인 설비 운용을 지원한다.

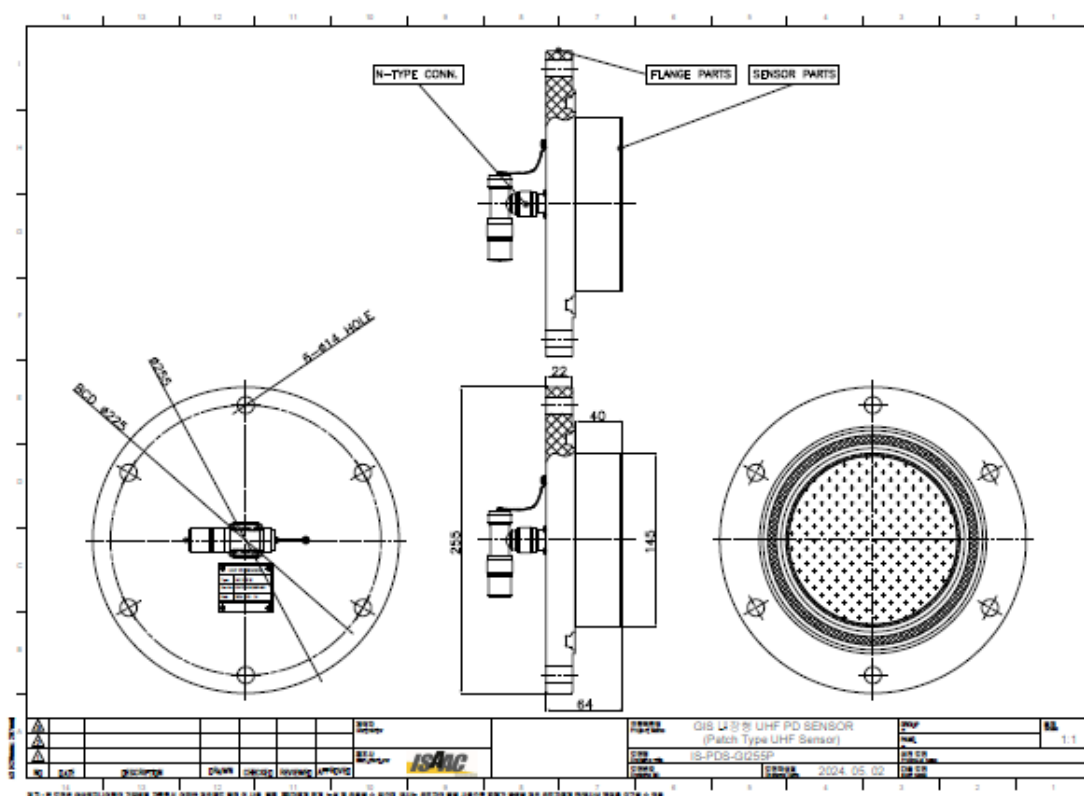
Technical Specification

Operation Frequency Range	100MHz ~ 1,500MHz
Sensor Sensitivity	IEC60270 Apparent Discharge / Below 5pC PD Detection (Above -40dBm / 0.1uW, 50Ω Standard)
Impedance	50Ω
Connector	IEC61169-16 / N-type (Female)
Average Effective Height	100MHz ~ 1,800MHz / 11mm (500MHz ~ 1,500MHz / 13mm)
Operating Temperature	-55 ~ +85°C
Degree of Protection	IEC60529 / IP-56
Applicable Pressure	-760mmHg. G ~ 7kgf/cm ² . G
Dimensions	O.D 255Φ x I.D 145Φ x H 64/40mm, M12 x 6

Average Effective Height



Layout



Product & Model Name

Patch Type UHF Sensor , IS-PDS-GI255P

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 : 031-321-2884, Fax : 031-321-0220



1. Report No : DRCKREL2410-0464
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
4. Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GI255P
5. Test Method Used : IEC 60068-2-1 : 2007, IEC 60068-2-2 : 2007, IEC 60068-2-6 : 2007,
IEC 60068-2-30 : 2005
6. Date of Test : October 01, 2024 ~ October 11, 2024
7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
(Address : 28, Baengnyeong-ro, 20Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea)
8. 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	Tested by	Technical Manager
	Name : NamGyu Lee	Name : KiDeok Kim
	Name : HeeKwan Jung	

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-GI255P
Test List	Insulation resistance measurement & High voltage Test

TEST REPORT

	Dt&C Co., Ltd. 42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel : 031-321-2664, Fax : 031-321-1664	
1. Report No : DRCREL2410-0748 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 4. Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GI255P 5. Test Method Used : Request of customer 6. Date of Test : October 08, 2024 7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing 8. Testing Environment : Temperature (21 ± 4) °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 test report is not related to KOLAS accreditation.		
Affirmation	Tested by Name : NamGyu Lee 	Technical Manager Name : KiDeok Kim 
October 22, 2024 Dt&C Co., Ltd.		

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Product & Model Name	Patch Type UHF Sensor , IS-PDS-GI255P
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 : DRCKREL2410-0470 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 4. Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GI255P 5. Test Method Used : IEC 60529 : 2013 6. Date of Test : October 14, 2024 ~ October 15, 2024 7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing (Address : 28, Baengnyeong-ro, 20Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea) 8. Testing Environment : Temperature (23 ± 4) °C , Humidity (46 ± 7) % 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. " * " <table border="1"> <tr> <td rowspan="2">Affirmation</td> <td>Tested by</td> <td>Technical Manager</td> </tr> <tr> <td>Name : NamGyu Lee </td> <td>Name : KiDeok Kim </td> </tr> </table> 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		Affirmation	Tested by	Technical Manager	Name : NamGyu Lee 
Affirmation	Tested by	Technical Manager				
	Name : NamGyu Lee 	Name : KiDeok Kim 				

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