

IS-PDS-GI255P

가스절연개폐장치(GIS) 내장형 UHF PD센서(Patch Type)



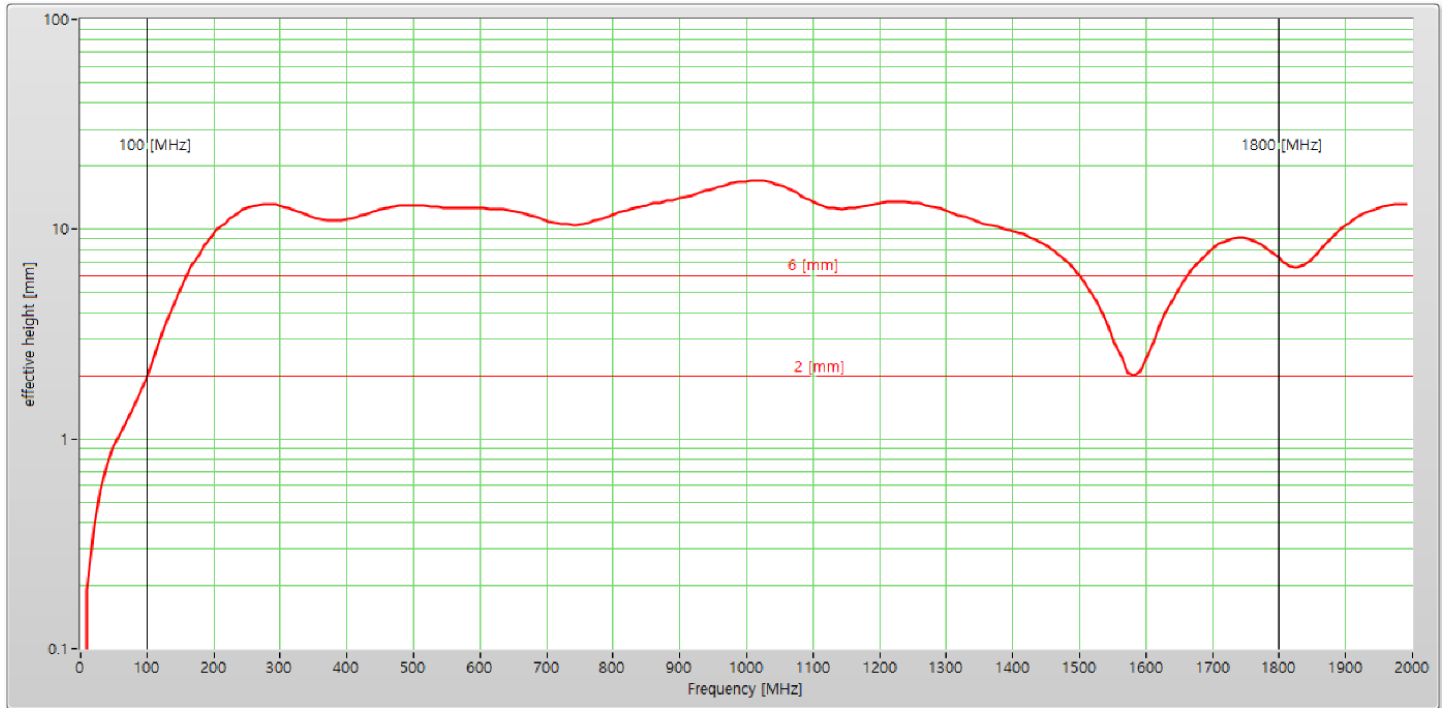
절연 결함은 전기적/기계적 스트레스 및 기타 환경적 요인에 의해 발생하며, 결함의 종류에 따라 부분 방전의 발생 패턴이 다르다. 가스절연 개폐장치(GIS)의 경우 제작 과정, 운반, 설치 및 운전 중 도체 및 외함 돌출과 스페이서 크랙 등의 결함이 발생한다.

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

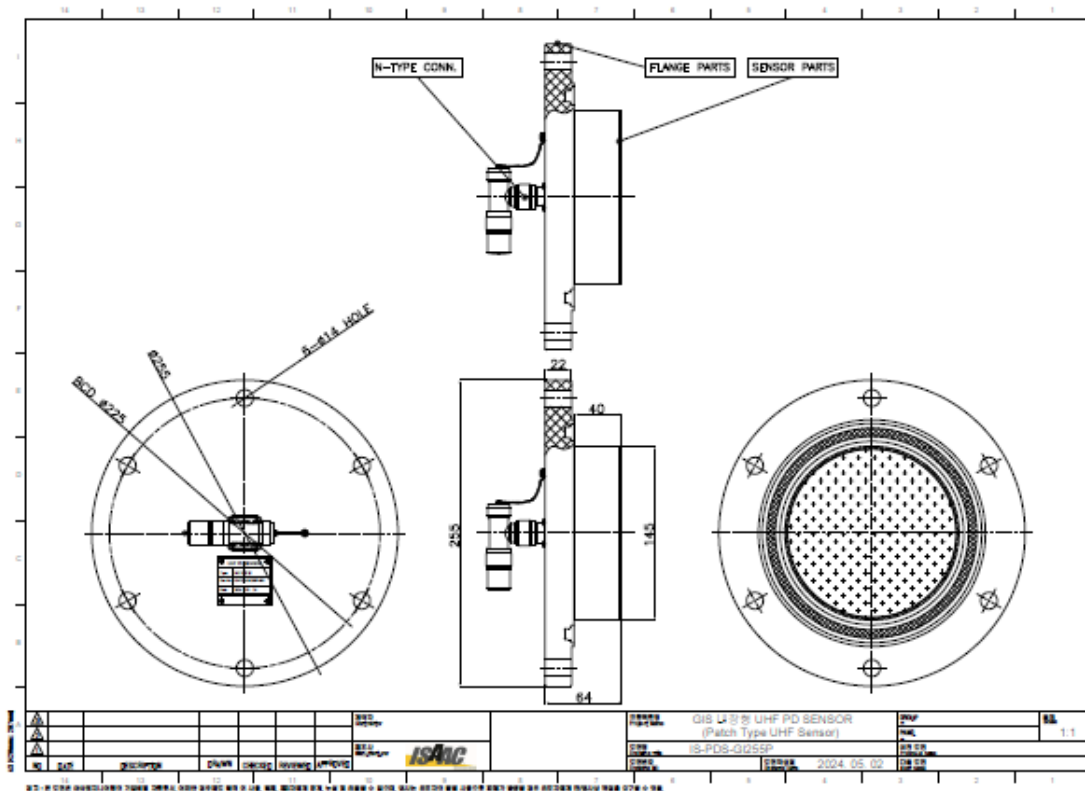
Technical Specification

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

	<p>Dt&C Co., Ltd. 42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si Gyeonggi-do, Korea Tel : 031-321-2664, Fax : 031-321-0220</p>		
<p>1. Report No : DRCKREL2410-0464</p> <p>2. Customer</p> <ul style="list-style-type: none"> • Name : ISAAC PDS • Address : #2705, 120 Heungdeokjungang-ro (Yeongdeok-dong, UTOWER), Giheung-gu, Yongin-si, Gyeonggi-do <p>3. Use of Report : For quality control</p> <p>4. Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GI255P</p> <p>5. Test Method Used : IEC 60068-2-1 : 2007, IEC 60068-2-2 : 2007, IEC 60068-2-6 : 2007, IEC 60068-2-30 : 2005</p> <p>6. Date of Test : October 01, 2024 ~ October 11, 2024</p> <p>7. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address : 28, Baengnyeong-ro, 20Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea)</p> <p>8. Testing Environment : Temperature (22 ± 5) °C , Humidity (46 ± 9) % R.H.</p> <p>9. Test Result : Refer to the attached Document</p> <p>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. * * *</p>			
Affirmation	<p>Tested by</p> <p>Name : NamGyu Lee</p> <p>Name : HeeKwan Jung</p>	<p>Technical Manager</p> <p>Name : KiDeok Kim</p>	
<p>The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.</p>			
<p>October 22, 2024</p>			
<p>Dt&C Co., Ltd. Accredited by KOLAS, Republic of KOREA</p>			

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TRF-RC-006(02)240307








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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			
<p>1. Report No : DRCREL2410-0748</p> <p>2. Customer</p> <ul style="list-style-type: none"> • Name : ISAAC PDS • Address : #2705, 120 Heungdeokjungang-ro (Yeongdeok-dong, UTOWER), Giheung-gu, Yongin-si, Gyeonggi-do <p>3. Use of Report : For quality control</p> <p>4. Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GI255P</p> <p>5. Test Method Used : Request of customer</p> <p>6. Date of Test : October 08, 2024</p> <p>7. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing</p> <p>8. Testing Environment : Temperature (21 ± 4) °C, Humidity (46 ± 9) % R.H.</p> <p>9. Test Result : Refer to the attached Document</p> <p>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.</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">Affirmation</td> <td style="width: 40%;"> Tested by Name : NamGyu Lee  </td> <td style="width: 45%;"> Technical Manager Name : KiDeok Kim  </td> </tr> </table> <p style="text-align: center;">October 22, 2024</p> <p style="text-align: center;">Dt&C Co., Ltd.</p>		Affirmation	Tested by Name : NamGyu Lee 	Technical Manager Name : KiDeok Kim 
Affirmation	Tested by Name : NamGyu Lee 	Technical Manager Name : KiDeok Kim 		










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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	Dt&C Co., Ltd. 42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si Gyeonggi-do, Korea Tel : 031-321-2664, Fax : 031-321-0220	 			
<p>1. Report No : DRCKREL2410-0470</p> <p>2. Customer</p> <ul style="list-style-type: none"> • Name : ISAAC PDS • Address : #2705, 120 Heungdeokjungang-ro (Yeongdeok-dong, UTOWER), Giheung-gu, Yongin-si, Gyeonggi-do <p>3. Use of Report : For quality control</p> <p>4. Product Name / Model Name : Patch Type UHF Sensor / IS-PDS-GI255P</p> <p>5. Test Method Used : IEC 60529 : 2013</p> <p>6. Date of Test : October 14, 2024 ~ October 15, 2024</p> <p>7. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address : 28, Baengnyeong-ro, 20Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea)</p> <p>8. Testing Environment : Temperature (23 ± 4) °C , Humidity (46 ± 7) % R.H.</p> <p>9. Test Result : Refer to the attached Document</p> <p>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. " * "</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">Affirmation</td> <td style="width: 40%;"> Tested by Name : NamGyu Lee  </td> <td style="width: 45%;"> Technical Manager Name : KiDeok Kim  </td> </tr> </table> <p>The above test report is the accredited test result by Korea Laboratory Accreditation Scheme which signed the ILAC-MRA.</p> <p style="text-align: center;">October 22, 2024</p> <p style="text-align: center;">Dt&C Co., Ltd. Accredited by KOLAS, Republic of KOREA</p>			Affirmation	Tested by Name : NamGyu Lee 	Technical Manager Name : KiDeok Kim 
Affirmation	Tested by Name : NamGyu Lee 	Technical Manager Name : KiDeok Kim 			
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