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CIN NO U21014UP1987PTC008956



TEST REPORT

TEST REPORT NO:	URS/LAB/02/RID/25-26/21093	DATE OF ISSUE:	24/02/2026
ULR NUMBER	ULR-TC163672600002084F		
NAME OF LABORATORY:	URS PRODUCTS AND TESTING PRIVATE LIMITED		
ADDRESS OF LABORATORY:	A-29, Sector 5, Noida-201301, India		
TESTING LOCATION:	A-29, Sector-5, Noida-201301		
CUSTOMER NAME:	Instruments & Systems		
CUSTOMER ADDRESS:	30 Mohhabewala, Industrial Area, Dehradun, Uttarakhand-248002		
TEST ITEM DESCRIPTION			
TEST ITEM	Differential Pressure Transmitter		
MODEL/ TRADE MARK	ISDPT-200 Make-I&S (Brand-iP Trans)	SERIAL NO.:	DPT-3719
SAMPLE CONDITION	Good	NO OF SAMPLE:	01
RECIEPT NO.:	URS/LAB/EME/25-26/4701DAD5	DATE OF RECIEPT.:	13/01/2026
RATINGS / SPECIFICATIONS	INPUT VOLTAGE	24 V DC	
	INPUT CURRENT	--	
	FREQUENCY	--	
	INPUT POWER	--	
NAME OF MANUFACTURER	Instruments & Systems		
MANUFACTURER'S ADDRESS	30 Mohhabewala, Industrial Area, Dehradun, Uttarakhand-248002		
TEST SPECIFICATION			
TEST METHOD / STANDARD	IEC 61326-1:2020		
TEST START DATE	14/01/2026	TEST END DATE	24/02/2026
ENVIRONMENTAL CONDITIONS	Temperature:15°C-35°C,Humidity :30%Rh-60%Rh , Atm : 860mbar-1060mbar		
CONCLUSION			
TEST RESULT	The test results Conforms to the requirement of the requested test of given standard based on the obtained test values/ results mentioned in this test report.		
REMARK	Compliance statement in this report has been made considering decision rule as inherent in its test standard and latest version of ILAC G-8.		

TESTED BY

Nikhil

Nikhil Kumar Srivastava
Analyst



AUTHORIZED SIGNATURE

Subhash Chand

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General Manager

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Subhash Chand

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General Manager

Note:

1. This test report is valid only for the sample(s) tested in our laboratory. 2. The test report is not permitted to be duplicated/reproduced in part or in extract in any circumstances. 3. URS lab is not responsible for authenticity of photocopied or reproduced test report. 4. The test results reported in this report are valid at the time of and under the stated conditions of measurements. 5. The remnant(Tested Samples)shall be destroyed after 07days from the date of testing unless specified otherwise in writing. 6. Any correction/erasure shall invalidate the test report. 7. This test report pertains to the test(s) carried out as requested by the customer. 8. This test report shall not be utilized for any legal purpose and shall not be produced in the court of law & no responsibility would be attached to URS Lab 9. URS reports, in general, are formally released in soft copy through reports@urs-labs.com , client portal, unless client will specifically request with sign & stamped letter with the intent to issue test reports in hard copy form. URS will not acknowledge for the reports said to be released through other means such as what's app. Test Reports for specific schemes such as BIS CRS/LRS schemes, are issued as per specific scheme requirements.

URS/TEE/F/19 Issue No. 05



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LAB LOCATION

URS PRODUCTS AND TESTING PRIVATE LIMITED A-29 Sector 5, Noida-201301 has the test facility for Electrical, Electronics, Photometry, EMI & EMC Test facilities and Environmental Test facilities are accredited by NABL and recognized by BIS.

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EQUIPMENT UNDER TEST DESCRIPTION

Name of the EUT	Differential Pressure Transmitter
Model	IS DPT200 / Associated model no: IS PT200
Serial No.	DPT-3719



EUT PHOTOGRAPH



MARKING PHOTOGRAPH

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Operating conditions of ESA during test.

EUT energized by 24 V DC . EUT operated at normal working condition .

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SUMMARY OF IMMUNITY TEST RESULTS

IEC 61000-4-2: 2025 Electrostatic Discharge (ESD)	Complies with the relevant requirements of IEC 61326-1:2020
IEC 61000-4-4:2012 Electrical Fast Transient/Burst Immunity Test (EFT)	Complies with the relevant requirements of IEC 61326-1:2020
IEC 61000-4-5:2017 Surge Immunity Test (Mains)	Complies with the relevant requirements of IEC 61326-1:2020
IEC 61000-4-6: 2023 Immunity to Conducted Disturbances, Induced by Radio Frequency Fields	Complies with the relevant requirements of IEC 61326-1:2020

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CRITERION	TEST DESCRIPTION
A	The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.
B	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.
C	Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

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2. LAB INTIAL CONDITION

For Surge, the EUT was mounted on a 1.0 by 1.5 by 0.8-meter-high non-conductive table, which was placed on the ground plane. For Electrical Fast Transient/Burst Immunity and Conducted Immunity testing, the EUT was mounted 0.1 meters above the ground plane using 10 cm high wooden blocks. For ESD testing, the unit was mounted 0.5 millimeters above the 0.8 meter by 1.6-meter horizontal coupling plane, which was placed on a 1.0 by 1.5 by 0.8-meter-high non-conductive table. EUT Chassis was grounded through separate ground cable.

2.2 FACILITY ENVIRONMENTAL CHARACTERISTICS

The Test site had the following Ambient Temperature, Relative Humidity and the Barometric Pressure

Lab Condition	
Ambient Temperature	25°C
Relative Humidity	55 % RH
Barometric Pressure	975 mBar

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2.3 TEST OBSERVATIONS/RESULTS

S. NO	Test Name	Test Description/Frequency range	Reference Standard/Test Specification	Acceptance Criteria	OBSERVATIONS /RESULTS
1.	Electrostatic Discharge (ESD)	$\pm 2, \pm 4$ kV for Contact Discharge $\pm 2, \pm 4, \pm 8$ kV for Air Discharge	IEC 61326-1:2020	B	Pass
2.	Electrical Fast Transient/Burst Immunity Test (EFT)	± 1 kV	IEC 61326-1:2020	B	Pass
3.	Surge Immunity Test	± 0.5 kV	IEC 61326-1:2020	B	Pass
4.	Immunity to Conducted Disturbances, Induced by Radio Frequency Fields	0.150 – 80 MHz	IEC 61326-1:2020	A	Pass

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Annex: List of Major Equipment used in Testing

S.NO	Equipment Name	Make & Model	Calibration Date	Next Calibration Date
1	6 KV SURGE GENERATOR WITH 3 PHASE CDN	6 KV SURGE GENERATOR WITH 3 PHASE CDN	27/Nov/2024	27/Nov/2026
2	Amplifier	PA6002	10/Jul/2025	09/Jul/2026
3	Attenuator	ATT-75W	10/Jul/2025	09/Jul/2026
4	CDN	CDN M 5-32	18/Jun/2025	17/Jun/2026
5	Electrical Intelligent Transient Generator (EFT)	EMS61000-4A	18/Feb/2025	17/Feb/2026
6	Electrostatic discharge generator	ESD61002T	14/Aug/2025	14/Aug/2026
7	Signal Generator	PMM Narda : 3010	10/Jul/2025	02/Jul/2026

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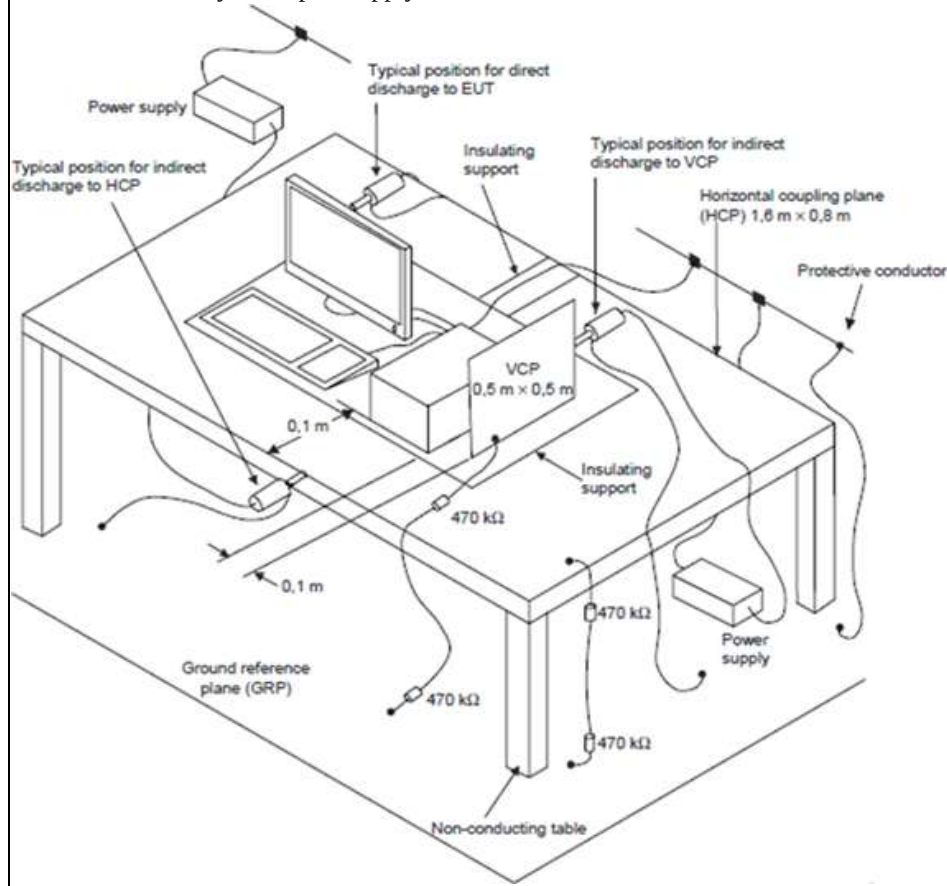
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ELECTROSTATIC DISCHARGE (ESD) IMMUNITY

3.1.1 Block Diagram of Setup:

The EUT was fed by Main port supply 24 V DC



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3.1.2 Standard:	
Test Requirement:	IEC 61326-1:2020
Test Method:	IEC 61000-4-2:2025
Port:	Enclosure
Test Level	$\pm 2, 4, 8 \text{ kV}$ (Air Discharge) $\pm 2, 4 \text{ kV}$ (Contact Discharge) $\pm 2, 4 \text{ kV}$ (Indirect Discharge)
Characteristics of Test Generator:	150pF/ 330 Ω
Criterion require	B

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3.1.3 Severity Levels

Severity level		
Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1	±2	±2
2	±4	±4
3	±6	±8
4	±8	±15
X	Special	Special

3.1.4 Performance criterion Required

B

3.1.5 Test Procedure:

1 Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

2 Contact Discharge:

All the procedure shall be same as Section 5.6.1. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

3 Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

4 Indirect discharge for vertical coupling plane

At least 10 single discharge (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

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Table 1: Electrostatic Discharge Immunity (Air Discharge)

IEC 61000-4-2 Test Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	-25 kV	+25 kV	-30 kV	+30 kV
Glass	A	A	A	A	A	A	A	A	--	--	--	--	--	--

Table 2: Electrostatic Discharge Immunity (Direct Contact)

IEC 61000-4-2 Test Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	-25 kV	+25 kV	-30 kV	+30 kV
Enclosure	A	A	A	A	--	--	--	--	--	--	--	--	--	--

Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)

IEC 61000-4-2 Test Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	-25 kV	+25 kV	-30 kV	+30 kV
Right Side	A	A	A	A	--	--	--	--	--	--	--	--	--	--
Left Side	A	A	A	A	--	--	--	--	--	--	--	--	--	--
Top	A	A	A	A	--	--	--	--	--	--	--	--	--	--
Bottom	A	A	A	A	--	--	--	--	--	--	--	--	--	--

Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)

IEC 61000-4-2 Test Points	-2 kV	+2 kV	-4 kV	+4 kV	-6 kV	+6 kV	-8 kV	+8 kV	-15 kV	+15 kV	-25 kV	+25 kV	-30 kV	+30 kV
Right Side	A	A	A	A	--	--	--	--	--	--	--	--	--	--
Left Side	A	A	A	A	--	--	--	--	--	--	--	--	--	--
Top	A	A	A	A	--	--	--	--	--	--	--	--	--	--
Bottom	A	A	A	A	--	--	--	--	--	--	--	--	--	--

3.1.6 Result

PASS with Performance Criteria B

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3.1.7 PHOTOGRAPH ESD

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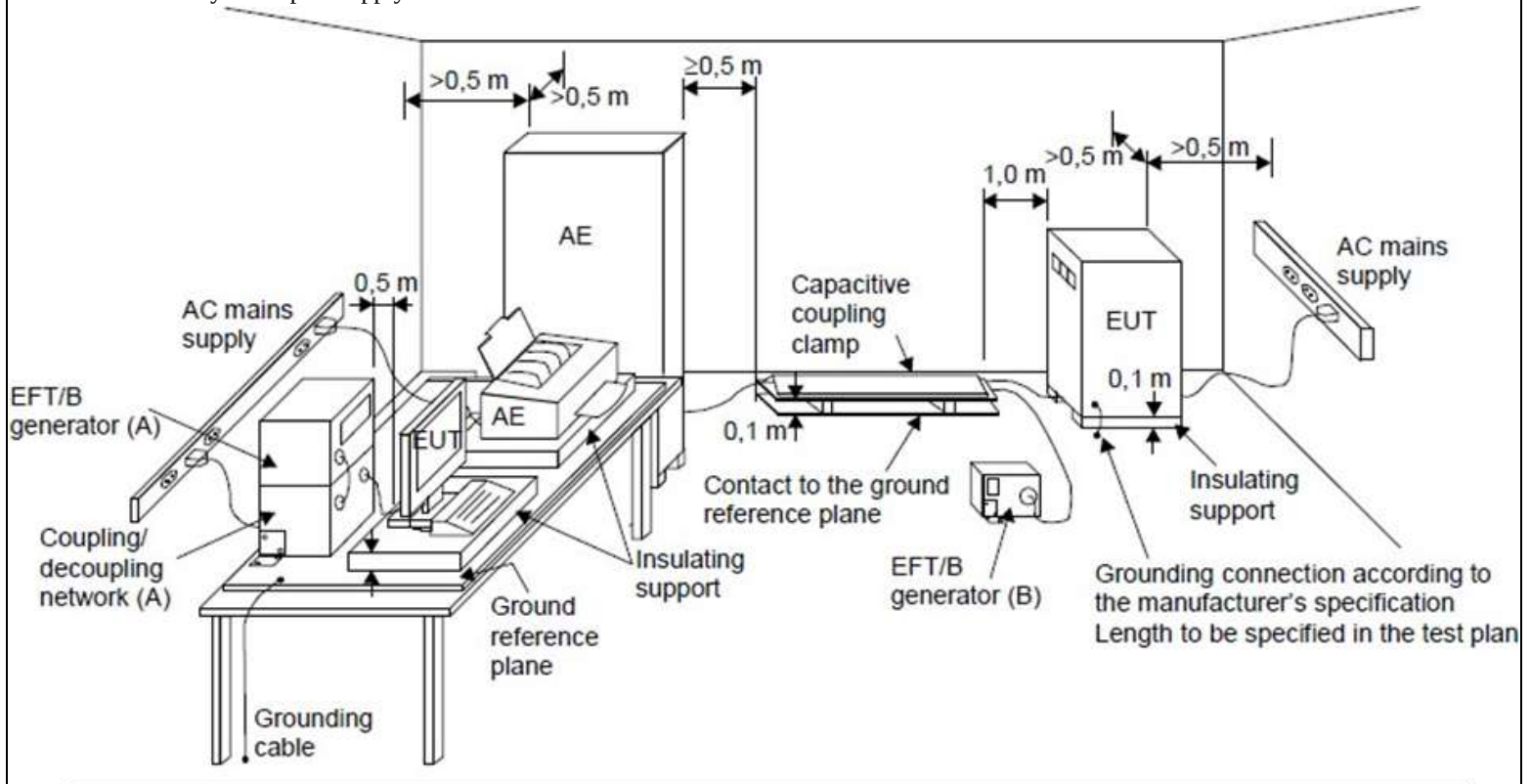
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ELECTRICAL FAST TRANSIENT/BURST (EFT/B) IMMUNITY

3.3.1 Block diagram of EFT Test

The EUT was fed by Main port supply 24V DC



(A) location for supply line coupling

(B) location for signal lines coupling

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3.3.2 Standard:							
Test Requirement				IEC 61326-1:2020			
Test Method				IEC 61000-4-4:2012			
Criterion required				B			
Test Level:				±1 KV			
Polarity				Positive and Negative			
Repetition Frequency				5 kHz			
Burst Duration				15ms			
Waveform Tr / Td:				5/50 ns			
Generator O/P Impedance				50 Ω			
Test Duration				1 minute per level			
3.3.3 Mode:				Main port supply 24 V DC			
3.3.4 Observation:							
	Test Specification						
Coupling Selection	Voltage (kV)	Test Duration (Sec)	Repetition Rate (kHz)	Tr/ Td (nS)	Performance Required	Observed Result	Verdict
P	±1	60	5	5/50	B	A	PASS
N	±1	60	5	5/50	B	A	PASS
P-N	±1	60	5	5/50	B	A	PASS

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3.3.5 Result:

PASS with Performance Criteria A



3.3.6 PHOTOGRAPH SURGE

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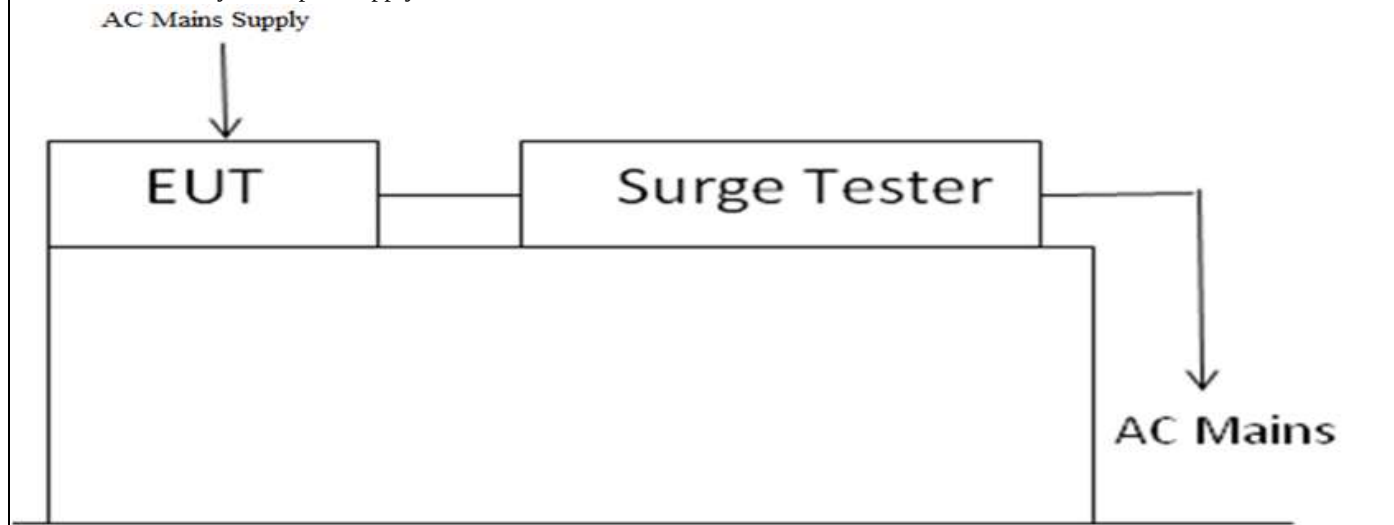
Date of Issue

24/02/2026

SURGE IMMUNITY TEST

3.4.1 Block Diagram of Setup:

The EUT was fed by Main port supply 24 V DC



3.4.2 Standard

Test Requirement	IEC 61326-1:2020
Test Method:	IEC 61000-4-5:2017
Criterion required	B
Waveform Tr / Td	1.2/50 (8/20) μ s
Test level	Differential: ± 0.5 kV

3.4.3 Mode

Main port supply 24 V DC
Asynchronous

TESTED BY

Nikhil Kumar Srivastava
Analyst



AUTHORIZED SIGNATURE

Subhash Chand
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3.4.4 Observations:

Coupling Selection	Test Specification			Performance Required	Observed Result	Verdict
	Voltage (kV)	Min. of Surge at Each Polarity	Repetition Rate (per min)			
P	±0.5 kV	5	1	B	A	PASS
N	±0.5 kV	5	1	B	A	PASS
P-N	±0.5 kV	5	1	B	A	PASS

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3.4.5 Result:

PASS with Performance Criteria A



3.2.6 PHOTOGRAPH EFT

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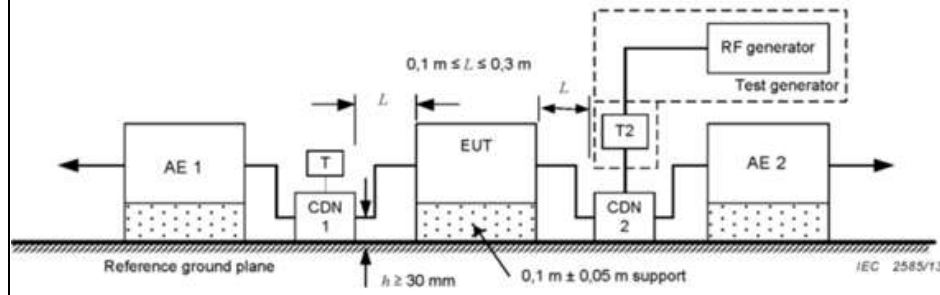
Date of Issue

24/02/2026

CONDUCTED DISRURBANCES

3.5.1 Block diagram of set up

The EUT was fed by Main port supply 24V DC <



3.5.2 Test Conditions:

Test Requirement	IEC 61326-1:2020
Test Method:	IEC 61000-4-6:2023
Criterion required:	A
Frequency Range	0.150 MHz - 80 MHz
Test level:	3 Vrms
Modulation:	80%, 1kHz Amplitude Modulation
Source impedance	150 Ω

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3.5.3 Severity Levels

2 Severity level

Level	Field Strength V/m
1	1
2	3
3	10
X	Special

3.5.4 Test Procedure

For AC Input line ports:

1. Set up the EUT, CDN and test generators as shown on Section 14.1.
2. Let the EUT work in test mode and measure it.
3. The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling network) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
4. The disturbance signal described below is injected to EUT through CDN.
5. The EUT operates within its operational mode(s) under intended climatic conditions after power on.
6. The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
7. The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value. Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

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3.5.5 Condition:

Frequency Range: 0.150 – 80 MHz,

Test Level: 2

Test Voltage: 3 Vrms

Modulation: Amplitude modulation of 1 kHz sine wave at 80% on power lines

3.5.6 Observations:

Type of Modulation	Voltage Level (emf) U0	Frequency Range	Modulation	Dwell Time	Performance Required	Observed Result	Verdict
Amplitude Modulation	3 Vrms	0.15 to 80MHz	80%, 1kHz,sinusoidal	3 Sec	A	A	PASS

3.5.6 Results:

During and after the test, the sample (EUT) has been checked Electrically and there is no deviation in output voltage

PASS with Performance Criteria **A**

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3.4.8 PHOTOGRAPH CS

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