



TEST REPORT FOR IEC 61000-4-5 (SURGE IMMUNITY)

Report No.: **13-05-MAS-173**

Client: **JD Auspice Co., Ltd**
Product: **Surge Protection Device**
Model: **DN-05/RS485-2G**
Comment Issues: **Reference Annex B**
Manufacturer/supplier: **JD Auspice Co., Ltd**

Date test item received: 2013/05/21
Date test campaign completed: 2013/05/27
Date of issue: 2013/05/27

The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

Total number of pages of this test report: 6 pages



Test Engineer

Kuang Chi Yu

Kuang Chi Yu

Checked By

Kevin Lin

Kevin Lin

ELECTRONICS TESTING CENTER, TAIWAN
NO.8, LANE 29, WEN-MING RD.,
LO-SHAN TSUN, KUI-SHAN HSIANG,
TAOYUAN HSIEN 33383
TAIWAN, R.O.C.

TEL: (03) 3276170-4
INT: +886-3-3276170-4
FAX: (03) 3276188
INT: +886-3-3276188

Laboratory Introduction: Electronics Testing Center, Taiwan is recognized, filed and mutual recognition arrangement as following:

- ① ISO9001: TÜV Product Service
- ② ISO/IEC 17025: BSMI, TAF, NCC, NVLAP, CCIBLAC, UL, Compliance
- ③ Filing: FCC, Industry Canada, VCCI
- ④ MRA: Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through NCC
- ⑤ FCC Registration Number: 90588, 91094, 91095



SURGE IMMUNITY TEST DATA

Test Date : May 23, 2013

Test Specification	IEC 61000-4-5		
Test Equipment	Calibration Date	Recommended Recal. Date	
Lightning Surge Simulator \ Noiseken \ LSS-15AX	Feb. 28, 2013	Feb. 27, 2014	
Climatic Condition	Ambient Temperature: <u>26</u> °C		Relative Humidity: <u>64</u> %RH
	Atmospheric Pressure: <u>998</u> mbar		
Power Supply System	DC power: 5Vdc		
Operating Conditions of The Device	Operation		

Waveform: 1.2/50 μ s(8/20 μ s)		Repetition rate: <u>60</u> sec		Times: <u>5</u> times/each condition	
			\Phase	NON-SYN	
			\Voltage \Mode \Polarity \Result		
6.0KV	SURGE	+	A- - B+	A	
		-		A	

Result:	<input checked="" type="checkbox"/> Complied	<input type="checkbox"/> Does not comply
Criterion Required:	<u>B</u>	Criterion Met: <u>A</u>

Note: "A" means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

SURGE IMMUNITY TEST SETUP PHOTO

ANNEX A: PHOTOS

Enclosure Type SPD

DN-**&&**/XXXX-******

&&--nominal voltage 5V, 12V, 24V, 48V

xxxxx--module type, RS232, RS422,RS423, RS485, 0/4-20ma,0-5V, 0-10V

******--G (or 2G)

name part number such as,

- 1) DN module with no signal ground: DN-24/G
 - 2) DN module with signal ground and earth ground: DN-24/2G
 - 3) use in application of RS232, RS422,RS423, RS485, 0/4-20ma,0-5V, 0-10V etc,
 - DN module with no signal ground:DN-24/RS485-G
 - DN module with signal ground and earth ground:DN-24/RS485-2G
- D1) 普通的，無信號地: DN-24/G
- 2) 有信號地和大地: DN-24/2G
 - 3) 用在 RS232, RS422,RS423, RS485, 0/4-20ma,0-5V, 0-10V 等應用：
 - 普通無信號地：DN-24/RS485-G
 - 有信號地及大地：DN-24/RS485-2G