EMC Test Report

CE

Product	:	Protector
Model Number	:	PS-1601, PS-1602, PS-1603, PS-1604, PS-1605
Prepared for	:	SHANGHAI BINJIE MECHANICAL AND ELECTRICAL CO.,LTD
Address	:	NO.1588, XIN GAO ROAD, QINGPU DISTRICT, SHANGHAI, CHINA
Prepared By	:	Shenzhen ZCT Technology Co.,Ltd.
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Report No.	:	18ZCTE0122007ER
Date of Test	:	Jan. 25, 2018-Jan. 26, 2018
Date of Rep.	:	Jan. 29, 2018

Prepared by(Engineer):

Reviewer(Quality Manager):

Approved & Authorized Signer(Manager):

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1 Contents

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2 Test Summary

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
EN 61000-6-3:2007 /A1:2011/AC:2012	Conducted Emission On AC And Telecom Port 150kHz to 30MHz	Class B	N/A	
	Radiated Emission 30MHz to 1000MHz	Class B	PASS	
	Radiated Emission 1GHz to 6GHz	Class B	N/A	NOTE (1)
EN61000-3-2:2014	Harmonic Current Emission	Class A	N/A	
EN 61000-3-3:2013	Voltage Fluctuations & Flicker	------	N/A	
EMC Immunity				
Section EN 61000-6-1:2007	Test Item	Performance Criteria	Judgment	Remark
EN 61000-4-2:2009	Electrostatic Discharge	B	PASS	
EN 61000-4-3:2006/A2:2010	RF electromagnetic field	A	PASS	
EN 61000-4-4:2012	Fast transients	B	N/A	
EN 61000-4-5:2014	Surges	B	N/A	
EN 61000-4-6:2014/AC:2015	Injected Current	A	N/A	
EN 61000-4-8:2010	Power Frequency Magnetic Field	A	N/A	
EN 61000-4-11:2004	Volt. Interruptions Volt. Dips	B	N/A	

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NOTE:

(1) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz.

If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz.

If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz.

If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

(2) The power consumption of EUT is less than 75W and no Limits apply.

(3) Voltage dip: 100% reduction – Performance Criteria **B**

Voltage dip: 30% reduction – Performance Criteria **C**

Voltage Interruption: 100% Interruption – Performance Criteria **C**

(4) For client's request and manual description, the test will not be executed.

(5)" N/A" denotes test is not applicable in this Test Report

3 General Information

3.1 General Description of EUT

Manufacturer:	SHANGHAI BINJIE MECHANICAL AND ELECTRICAL CO.,LTD
Manufacturer Address:	NO.1588, XIN GAO ROAD, QINGPU DISTRICT, SHANGHAI, CHINA
EUT Name:	Protector
Brand Name:	NGU
Model No:	PS-1601
Attached No.:	PS-1602, PS-1603, PS-1604, PS-1605
Power Supply Range:	Input : DC 24V 0.08A 2W
Test Power Supply:	Input : DC 24V 0.08A 2W

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4 Equipments List for All Test Items

No.	Equipment	Manufacturer	Model No.	S/N	Cal date
1	EMI Test Receiver	R&S	ESCI	100612	2017-05-31
2	EMI Test Receiver	R&S	ESPI	100067	2017-05-31
3	Amplifier	HP	8447D	1937A02415	2017-05-31
4	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07118	2017-05-31
5	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-387	2017-05-31
6	Horn Antenna	SCHWARZBECK	BBHA9120A	B08000991-0021	2017-05-31
7	High Field Biconical Antenna	ELECTRO-METRICS	EM-6913	169	2017-05-31
8	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	818	2017-05-31
9	Remote Active Vertical Antenna	ELECTRO-METRICS	EM-6892	354	2017-05-31
10	Power Clamp	SCHWARZBECK	MDS-21	3898	2017-05-31
11	Single Power Conductor Module	FCC	FCC-LISN-5-50-1-01-CISPR25	07254	2017-05-31
12	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	D-69124	2017-05-31
13	Positioning Controller	C&C	CC-C-1F	MF7802155	2017-05-31
14	Electrostatic Discharge Simulator	TESEQ	NSG437	128	2017-05-31
15	Fast Transient Burst Generator	SCHAFFNER	MODULA6150	34587	2017-05-31
16	Fast Transient Noise Simulator	Noiseken	FNS-105AX	31438	2017-05-31
17	Capacitive Coupling Clamp	TESEQ	CDN8014	25115	2017-05-31
18	Color TV Pattern Genenator	PHILIPS	PM5418	TM209966	N/A
19	Power Frequency Magnetic Field Gene	EVERFINE	EMS61000-8K	608085	2017-05-31
20	Triple-Loop Antenna	EVERFINE	LLA-2	607035	2017-05-31
21	10dB attenuator	SCHWARZBECK	MTAIMP-136	R65.90.0009	2017-05-31
22	AC Power Source	California Instrumnets	5001ix-400-N0	HK53570	2017-05-31
23	Power Analyzer	California Instrumnets	PACS-3	X71719	2017-05-31

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5 Emission Test Results

5.1 Mains Terminals Disturbance Voltage Measurement

Frequency Range:	150kHz to 30MHz
Limits:	Table 2 of EN 55022
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak & Average if maximized peak within 6dB of Average Limit

5.1.1 E.U.T. Operation

Operating Environment:

Temperature:	24◦C	Humidity:	54% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

5.1.2 Test Specification

EUT was placed upon a wooden test table 0.8m above the horizontal metal reference plane and 0.4m from the vertical ground plane, and it was connected to an AMN. The closest distance between the boundary of the EUT and the surface of the AMN is 0.8m. All peripherals were connected to another AMN, and placed at a distance of 10cm from each other. A spectrum and receiver was connected to the RF output port of the AMN. Both average and quasi-peak value were detected.

Associated with the conducted emission test data in this report is a ±1.54dB measurement uncertainty.

5.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines.

Quasi-peak or average measurements were performed at the frequency which maximum peak emissions were detected.

Please refer to the attached quasi-peak & average measurement data for reference.

N/A

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5.2 Radiated Emissions Measurement

Frequency Range:	30MHz to 1GHz
Measurement Distance:	3 m
Limits:	40.0 dBμV/m between 30MHz & 230MHz
	47.0 dBμV/m between 230MHz & 1000MHz
Detector:	Peak for pre-scan (120kHz resolution bandwidth)
	Quasi-Peak if maximum peak within 6dB of limit

5.2.1 E.U.T. Operation

Operating Environment:

Temperature:	24.2°C	Humidity:	54% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

5.2.2 Test Specification

EUT was placed upon a wooden test table which was placed on the turn table 0.8m above the horizontal metal ground plane, and operating in the mode as mentioned above. A receiving antenna was placed 3m away from the EUT. During testing, turn around the turn table and move the antenna from 1m to 4m to find the maximum field-strength reading. All peripherals were placed at a distance of 10cm between each other. Both horizontal and vertical antenna polarities were tested.

Associated with the radiated emission test data in this report is a ±3.08dB measurement uncertainty.

5.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyzers in peak detection mode. The EUT was measured by Biology antenna with 2 orthogonal polarities and peak emissions from the EUT were detected within 6dB of the class B limit line.

The following quasi-peak measurements were performed on the EUT.

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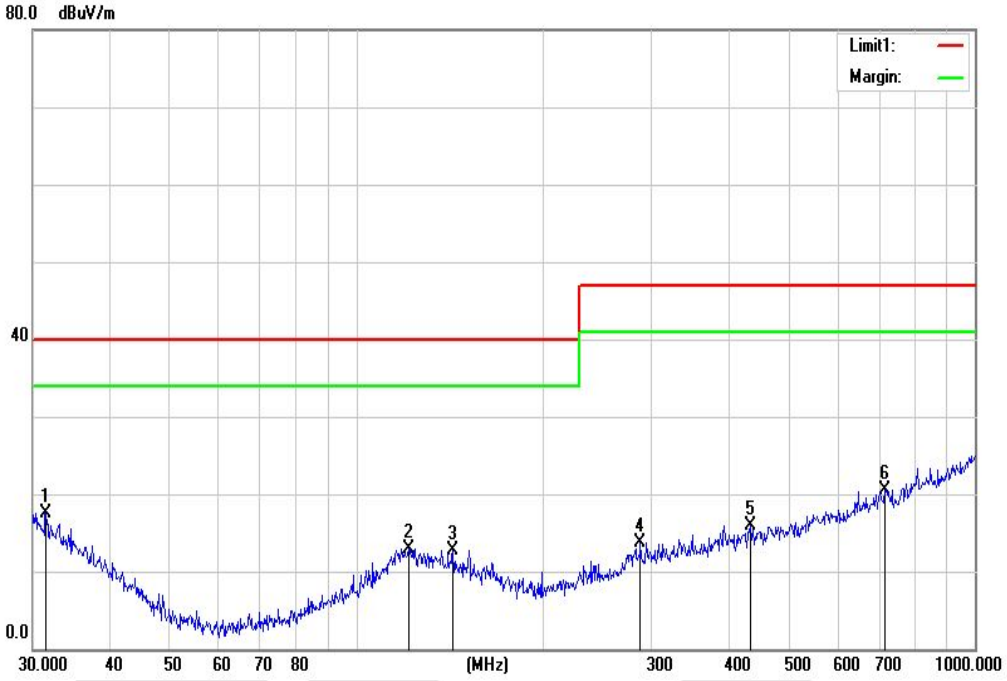
EUT:	PLNET CT Switch PACK (Latching Relay)	**Model No.:**	PS-1601
Temperature:	24.2℃	**Relative Humidity:**	54%
Distance:	3m	**Test Power:**	DC 24V
Polarization:	Horizontal	**Test Result:**	Pass
Standard:	EN 61000-6-3 Class B	**Test By:**	King
Test Mode:	Normal Operation		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.5095	27.66	-10.10	17.56	40.00	-22.44	QP
2	121.5486	26.89	-13.94	12.95	40.00	-27.05	QP
3	143.3261	27.89	-15.17	12.72	40.00	-27.28	QP
4	287.9904	27.21	-13.42	13.79	47.00	-33.21	QP
5*	434.0651	27.81	-11.85	15.96	47.00	-31.04	QP
6	714.1734	27.99	-7.50	20.49	47.00	-26.51	QP

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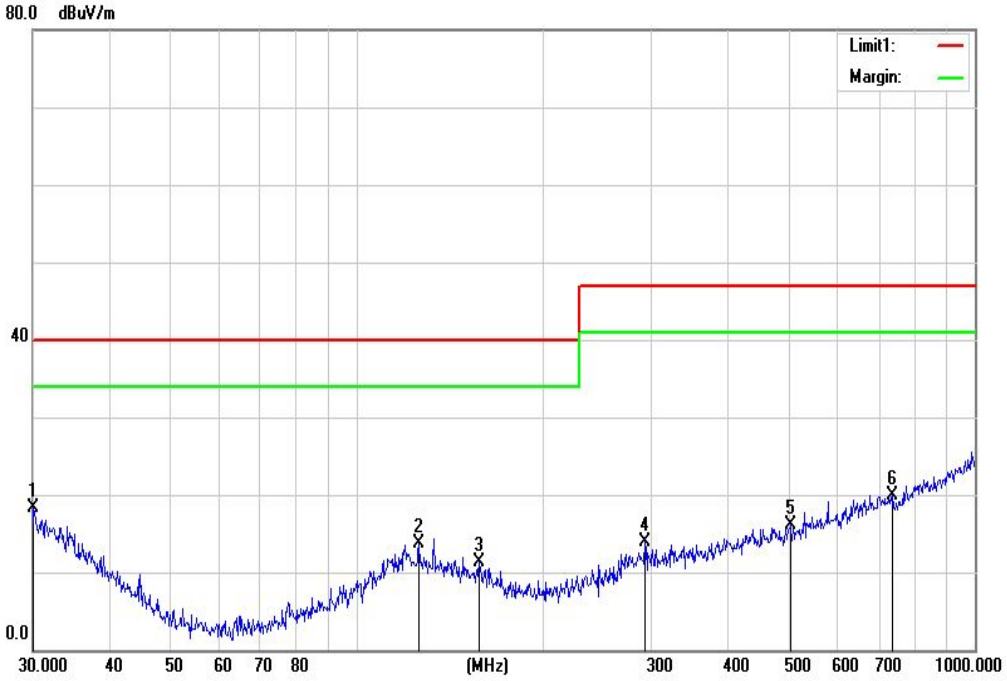
EUT:	Protector	**Model No.:**	PS-1601
Temperature:	24.2℃	**Relative Humidity:**	54%
Distance:	3m	**Test Power:**	DC 24V
Polarization:	Vertical	**Test Result:**	Pass
Standard:	EN 61000-6-3 Class B	**Test By:**	King
Test Mode:	Normal Operation		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1*	30.1054	27.51	-9.22	18.29	40.00	-21.71	QP
2	126.3286	27.99	-14.22	13.77	40.00	-26.23	QP
3	158.1123	27.38	-16.02	11.36	40.00	-28.64	QP
4	293.0842	27.36	-13.41	13.95	47.00	-33.05	QP
5	504.7062	27.46	-11.43	16.03	47.00	-30.97	QP
6	737.0714	27.44	-7.47	19.97	47.00	-27.03	QP

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5.3 Harmonics

Frequency Range:	100Hz to 2kHz
Test Requirement:	EN 61000-3-2

5.3.1 E.U.T. Operation

Operating Environment:

Temperature:	24.2°C	Humidity:	56% RH	Atmospheric Pressure:	102.0	Kpa
EUT Operation:	Normal Operation					

5.3.2 Test specification

EUT operated in the mode as mentioned above, and connected to Harmonic/Flicker measuring equipment which was connected to an AC power source. Measurement was performed after EUT operating in static state for 10 seconds. Each order harmonics found to meet the relevant limits.

5.3.3 Measurement Data

N/A

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5.4 Voltage changes, voltage fluctuations and flicker

Test Requirement:	EN 61000-3-3					
5.4.1 E.U.T. Operation						
Operating Environment:						
Temperature:	24.2°C	Humidity:	56% RH	Atmospheric Pressure:	102.0	Kpa
EUT Operation:	Normal Operation					
5.4.2 Test specification						
EUT was operated in the mode as mentioned above, and connected to Harmonic/Flicker measuring equipment which was connected to an AC power source.						
5.4.3 Measurement Data						
N/A						

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6 Immunity Test Results

6.1 Electrostatic discharge immunity test

Acceptable Performance Criterion:	B	
Discharge Impedance:	330 Ω / 150 pF	
Discharge Voltage:	Air Discharge:	±8 kV
	Contact Discharge:	±4 kV
	VCP, HCP:	±4 kV
Polarity:	Positive & Negative	
Minimum discharge Interval:	1 second	

6.1.1 E.U.T. Operation

Operating Environment:

Temperature:	24 °C	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

6.1.2 Test specification

EUT was operated in the mode as mentioned above. Both contact and air discharge was executed. Contact discharge to the conductive surfaces and to coupling planes; air discharge at insulating surfaces. Each test point shall be subjected to 10 discharges at least (For each voltage and polarity).

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6.1.3 Measurement Data

Test Record

Electrostatic Discharge Immunity Test Results

Applicant: SHANGHAI BINJIE MECHANICAL AND ELECTRICAL CO.,LTD EUT: Protector M/N: PS-1601 Power Supply: Input: DC 24V	Test Date: Jan. 25, 2018 Test Result: ■ Pass □ Fail Temp: 24 ℃ , Humi: 55 % Atmospheric Pressure: 101 Kpa

Operating Mode	Normal Operation	Criterion	B
Test Level	Air Discharge(A) ± 8 KV , Contact Discharge (C) ± 4 KV		

Test Position	Discharge Mode	Points	Discharges for each Point (for each Voltage And polarity)	Result
Gap	A	3	10	Pass
HCP	C	4	25	Pass
VCP	C	4	25	Pass
Shell	A	3	10	Pass
Button	A	3	10	Pass

Note： "**A**" means Air Discharge, "**C**" means Contact Discharge, Horizontal Coupling Plane(**HCP**) and Vertical Coupling plane(**VCP**).

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6.2 RF field strength immunity test

Acceptable Performance Criterion:	A
Test Level	3 V/m
Test Distance	3 m
Frequency Range	80MHz~1000MHz
Polarity:	Horizontal & Vertical

6.2.1 E.U.T. Operation

Operating Environment:

Temperature:	24℃	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

6.2.2 Test specification

Test was executed in a fully Anechoic chamber. An antenna was used to transmit interference signal. EUT was placed upon a wooden table above the reference ground 0.8m, and was positioned so that the four sides of the EUT shall be exposed to the electromagnetic field in a sequence. In each position the performance of the EUT was investigated. A camera was used to monitor the loss of function or degradation of performance of the EUT.

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6.2.3 Measurement Data

Test Record

Radiated Frequency Field Strength Immunity Test Results

Applicant: SHANGHAI BINJIE MECHANICAL AND ELECTRICAL CO.,LTD

EUT: Protector

M/N: PS-1601

Power Supply: Input: DC 24V

Test Date: Jan. 25, 2018

Test Result: ■ Pass □ Fail

Temp: 24 ℃ , Humi: 55 %

Atmospheric Pressure: 101 Kpa

Test Port	Input Port			
Operating Mode	Normal Operation			
Test Level	3 V/m (r.m.s) (unmodulated)		Criterion	A
Frequency Range(MHz)	Antenna polarity	Modulation	EUT position	Result
80~1000	Horizontal	1kHz, 80%, AM	Front	Pass
			Rear	Pass
			Left	Pass
			Right	Pass
80~1000	Vertical	1kHz, 80%, AM	Front	Pass
			Rear	Pass
			Left	Pass
			Right	Pass

Note ： None

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6.3 Electrical fast transient/burst immunity test

Acceptable Performance Criterion:	B
Test Level:	0.5, 1.0, kV on AC Line; 0.5 kV on Signal Line
Repetition Frequency:	5 kHz
Burst Duration:	300 ms
Test Duration:	2 minutes for each level & polarity

6.3.1 E.U.T. Operation

Operating Environment:

Temperature:	24◦C	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

6.3.2 Test specification

EUT was placed on a metal ground reference plane and was insulated from it by a wooden support which is 0.1m thick. The ground reference plane is connected to the protective earth. The test generator and the coupling/decoupling network were placed directly on, and bonded to the ground reference plane.

6.3.3 Measurement Data

N/A

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6.4 Surge immunity test

Acceptable Performance Criterion:	B
Test Level:	0.5, 1kV Live to Neutral
	0.5, 1, 2kV Live, Neutral to Earth
Polarity:	Positive & Negative
Generator source impedance:	2 Ω & 12 Ω
Trigger Mode:	Internal
No. of surges:	5 positive & 5 negative at 0°, 90°, 180°, 270°.

6.4.1 E.U.T. Operation

Operating Environment:

Temperature:	24◦C	Humidity:	55% RH	Atmospheric Pressure:	102.0	Kpa
EUT Operation:	Normal Operation					

6.4.2 Test specification

EUT was placed on a wooden table which is 0.8m above the ground and operated in the mode as mentioned above. The power cord between the EUT and the coupling/decoupling network was bundled so as to make it less than 2 m in length.

6.4.3 Measurement Data

N/A

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6.5 Conducted disturbance immunity Test

Acceptable Performance Criterion:	A
Test Level	3 V
Frequency Range	0.150MHz~80MHz

6.5.1 E.U.T. Operation

Operating Environment:

Temperature:	24◦C	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

6.5.2 Test specification

The equipment to be tested was placed on an insulating support of 0,1m height above a ground reference Plane. The minimum distance between the EUT and all other conductive structures, except the ground reference plane is more than 0.5m. All relevant cables were provided with the appropriate coupling and decoupling devices at a distance between 0.1m and 0.3m from the projected geometry of the EUT.

6.5.3 Measurement Data

N/A

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6.6 Power frequency magnetic field immunity test

Acceptable Performance Criterion:	A
Test Level:	1 A/m
Coil Orientation:	X & Y & Z
Test Duration:	5 Minutes for each orientation

6.6.1 E.U.T. Operation

Operating Environment:

Temperature:	24◦C	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

6.6.2 Test specification

The equipment is configured and connected to satisfy its functional requirements. It was placed on the ground reference plane with the interposition of a 0.1 m thickness wooden support and was placed in the center of the induction coil. All cables (include power cord and signal line) were exposed to the magnetic field for at least 1m of their length.

6.6.3 Measurement Data

N/A

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6.7 Voltage dips and interruptions immunity test

Acceptable Performance Criterion:	B & C
Test Level:	＜5% of U_T (Supply Voltage) for 0.5 and 250 Periods
	70 % of U_T (Supply Voltage) for 25 Periods
No. of Dips / Interruptions:	3 per Level

6.7.1 E.U.T. Operation

Operating Environment:

Temperature:	24◦C	Humidity:	55% RH	Atmospheric Pressure:	101	Kpa
EUT Operation:	Normal Operation					

6.7.2 Test specification

EUT connected to the test generator with the shortest power supply cable as specified by the EUT manufacturer. The rated voltage of the EUT was used as the basis for voltage test level specification. After each group of tests, a full functional check was performed.

6.7.3 Measurement Data

N/A

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7 APPENDIX-Photographs of EUT Constructional Details

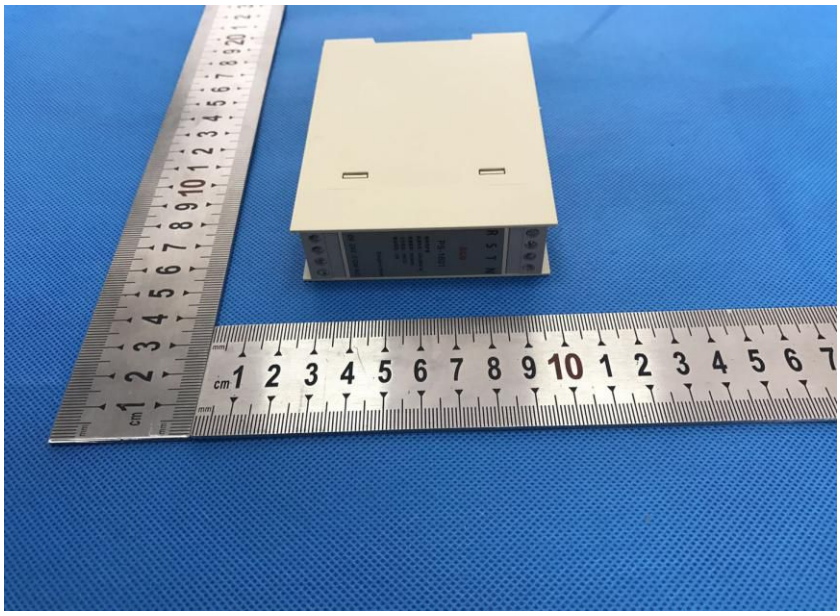

Photo 1

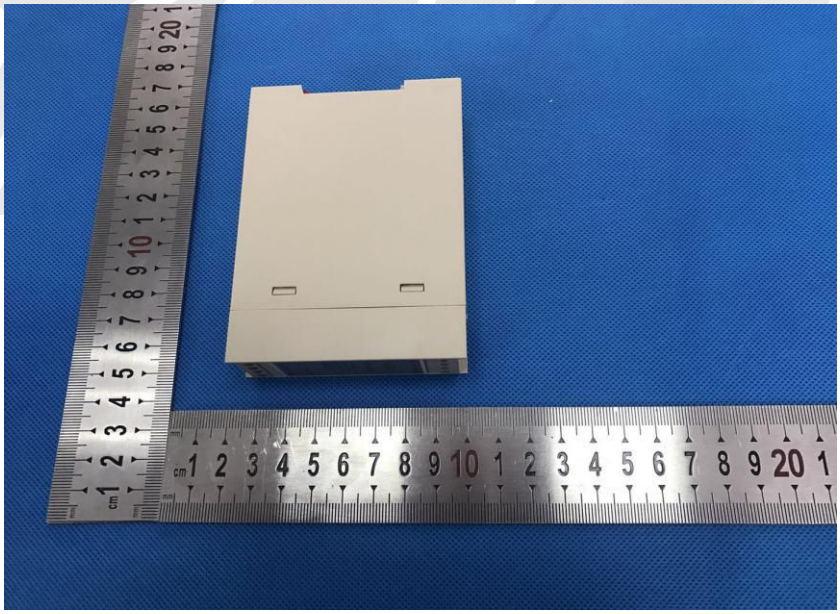

Photo 2

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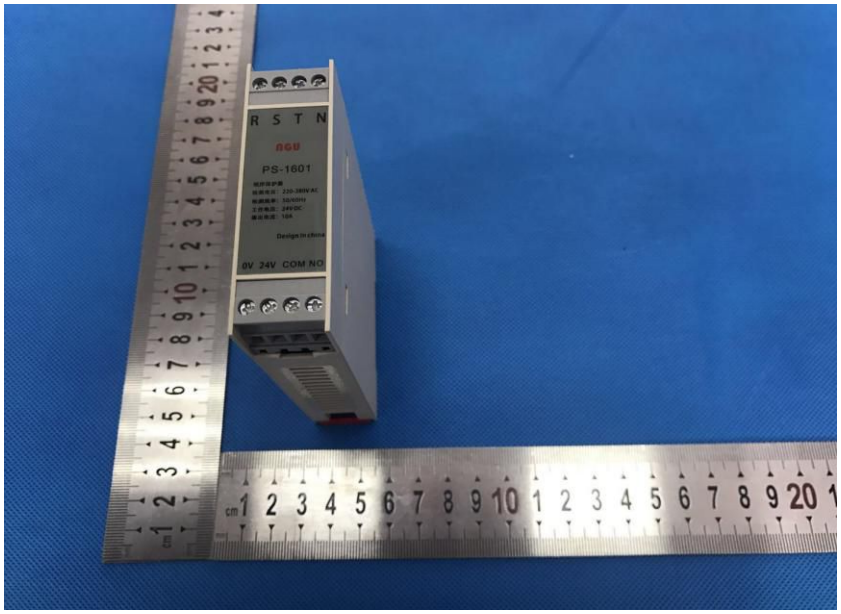

Photo 3

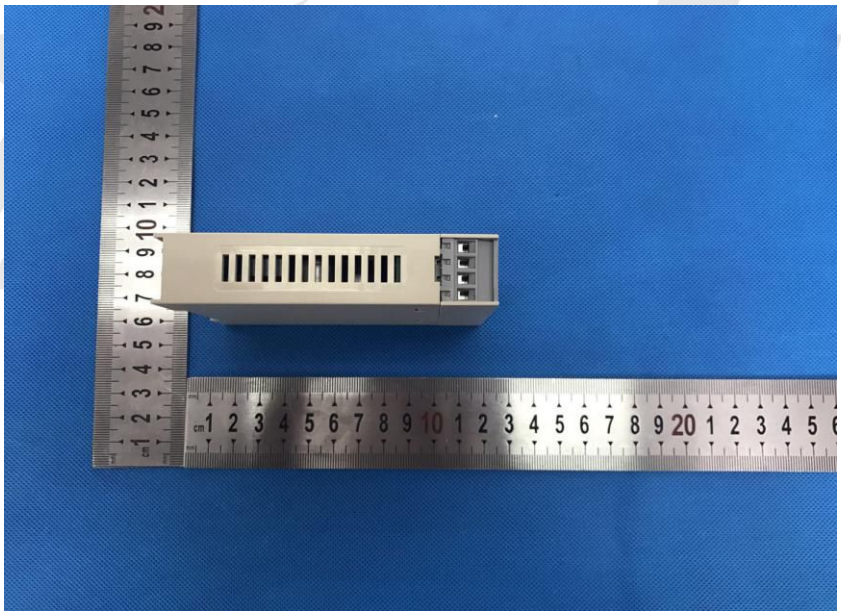

Photo 4

****End of Report***

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