

CE-EMC TEST REPORT

Product: Anemometer

Trade Name: N/A

TL-302, TL-300, TL-301, TL-303,

Model Name: TL-304, TL-305, TL-306, TL-307,

TL-308

Date of Test: Jul. 24, 2020 -Jul. 28, 2020

Date of Report: Jul. 28, 2020

Report Number: HK2007171804-1ER

Prepared By:

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TEST REPORT VERIFICATION

Report No.: HK2007171804-1ER

EUT Description : Anemometer

(A) Model No. : TL-302

TL-300, TL-301, TL-303, TL-304, TL-305, TL-306, TL-307,

B) Serial Model : TI -308

(C) Power Supply: DC 3.6V From Battery

EN 61326-1:2013

Standards EN 61326-2-2:2013

This device described above has been tested by HUAK, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU requirements. And it is applicable only to the tested sample identified in the report.

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Test Result Pass

Reviewed by:

Date of Test: Jul. 24, 2020 - Jul. 28, 2020

Prepared by: (Tany Liam

Project Engineer

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Approved by:

Technical Director





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** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	2020/07/28	James Zhou	
6	O O	G	and a	

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com. HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com Add: 1/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission						
Standard	Test Item	Limit	Judgment	Remark		
EN 04200 4	Conducted Emission	Class B	N/A	0		
EN 61326-1	Radiated Emission	Class B	PASS	ESTING		
EN 61000-3-2	Harmonic Current Emission	Class A or D	N/A			
EN 61000-3-3	Voltage Fluctuations & Flicker	@ HTVIII.	N/A	TESTING (
	EMC Immunity					
Section EN 61326-2-2	Test Item	Performance Criteria	Judgment	Remark		
EN 61000-4-2	Electrostatic Discharge	В	PASS	HUAK TESTING		
EN 61000-4-3	RF electromagnetic field	Α	PASS	8		
EN 61000-4-4	Fast transients	Balantin	N/A	esmig		
EN 61000-4-5	Surges	В	N/A			
EN 61000-4-6	Injected Current	O HUMA	N/A	SING (
EN 61000-4-8	Power Frequency Magnetic Field	Α 🎳	N/A	Make		
EN 61000-4-11	Volt. Interruptions Volt. Dips	B / C / C NOTE (3)	N/A			

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (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.



1.1 TEST FACILITY

Shenzhen HUAK Testing Technology Co., Ltd. Add.: 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

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1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of **k=2** · providing a level of confidence of approximately 95 % ·

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U · (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	3.2	KILL HIM

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U · (dB)	NOTE
A01	ANSI	30MHz ~ 1000MHz	4.7	AN VICE
		1GHz ~6GHz	5.0	N=0



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Anemometer
Model Name	TL-302
Serial Model	TL-300, TL-301, TL-303, TL-304, TL-305, TL-306, TL-307, TL-308
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: TL-302.
Product Description	The EUT is a Anemometer. Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Power Source	DC Voltage
Power Rating	DC 3.6V From Battery



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Running

For Conducted Test				
Final Test Mode	Description			
Mode 1	N/A	INTEST		

For Radiated Test			
Final Test Mode Description			
Mode 1 Running			

	For EMS Test		
	Final Test Mode	Description	
8	Mode 1	Running	

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2.3 DESCRIPTION OF TEST SETUP

Mode 1:

E-1 EUT



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

			55/10	200	-CG 1
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Anemometer	N/A	TL-302	N/A	EUT
	O Marie	0	1018	- 0 mm	
		RY TESTING		3-	
51	NG TESTING OF	-75TMG	WTESTING WIND	TSTNG	TESTING
WW.	O Mayor	(a) HI JAPA	S HILL	O Mine.	Wp.
Olego-	and a second	September	- Allen	CTAIL C	- SING
KTES	MAKTE	HUAK TEC	MAKTE	A HILLY TELL	A HUAK TES
					0
10.	G	VOK TESTED	3.6	W. TESTA	G

Item	Shielded Type	Ferrite Core	Length	Note
		OK TESTING	OK TEST	
STA	E TESTING ON	-STING	TESTING ON HO	STAGE TESTING
MAKE	(a) In law	HUNKIN	S HIME	White and White
	G	, viG	as G	قد قد
A TESTING	WARTES TO	WAK TESTING	MAK TESTIN	WAY TESTING
	6	0,	(a).), (i)
Mile		TESTING	2	CTESTING.

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	HKE-002	Dec. 25, 2020
2	LISN	R&S	ENV216	HKE-059	Dec. 25, 2020
3	EMI Test Receiver	R&S	ESCI-7	HKE-010	Dec. 25, 2020

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2.5.2 RADIATED TEST SITE

	- 10 (20 (122 120 10112				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 25, 2020
2	Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 25, 2020
3	EMI Test Receiver	R&S	ESCI-7	HKE-010	Dec. 25, 2020
4	Spectrum Analyzer	Agilent	N9020A	HKE-048	Dec. 25, 2020
5	Amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 25, 2020
6	Amplifier	Agilent	83051A	HKE-016	Dec. 25, 2020

2.5.3 HARMONICS AND FILCK

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonic flicker tester	California Instruments	5001ix	HKE-037	Dec. 25, 2020

2.5.4 ESD

Ite	m Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Tales	ESD device	Schloder	SESD 216	HKE-023	Dec. 25, 2020



2.5.5 RS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Signal generator	Agilent	83630A	HKE-028	Dec. 25, 2020
2	Signal generator	Agilent	N5182A	HKE-029	Dec. 25, 2020
3	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 25, 2020
4	Power amplifier	R&S	5225F	HKE-058	Dec. 25, 2020
5	Power amplifier	R&S	NTWPA-106 0040E	HKE-035	Dec. 25, 2020

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2.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Full-featured immunity tester	HTEC	HV1P16T	HKE-017	Dec. 25, 2020

2.5.7 INJECTION CURRENT

	11102011011 0011112				
Iter	N Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Magnetic clamp	EMCL	EMCL-20	HKE-032	Dec. 25, 2020
2	Integrated Conduction Sensitivity Test System	Schloder	CDG6000	HKE-033	Dec. 25, 2020

2.5.8 MF

Iten	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power frequency	HTEC Instruments	HPFMF	HKE-049	Dec. 25, 2020
	induction coil	Ltd.	111 1 1411	TIIL 043	DCC. 20, 2020



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B (dBuV)	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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The following table is the setting of the receiver

3
-m/G
Les



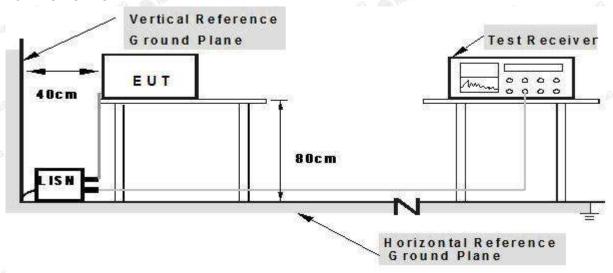
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.





3.1.5 TEST RESULTS

EUT:	Anemometer	Model Name. :	TL-302
Temperatre :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	Phase :	N/A
Test Voltage :	N/A	TESTING MIA	KTESTING

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

	Clas	ss A	Class B		
FREQUENCY (MHz)	At 10m	At 3m	At 10m	At 3m	
	dBuV/m	dBuV/m	dBuV/m	dBuV/m	
30 – 230	40	50	30	40	
230 – 1000	47	57	37	47	

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3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (at	3m) dBuV/m	Class B (at 3m) dBuV/m		
	Peak	Avg	Peak	Avg	
1000-3000	76	56	70	50	
3000-6000	80	60	74	54	

Notes:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

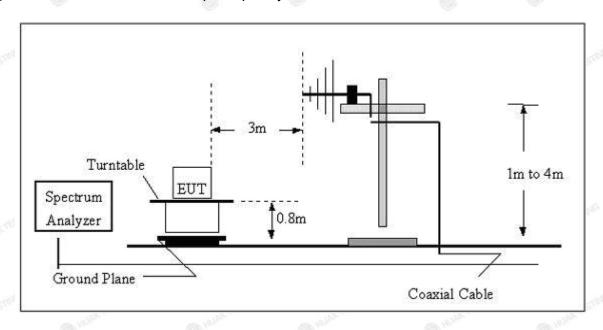
3.2.3 TEST PROCEDURE

- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.



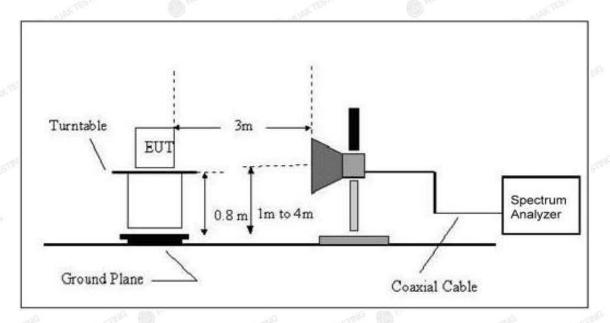
3.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

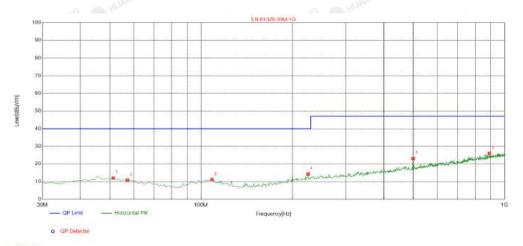
Note:

All the test modes completed for test. only the worst result of was reported.

as below:

EUT :	Anemometer	Model Name :	TL-302
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2020-07-27
Test Mode :	Running	Polarization :	Horizontal
Test Power :	DC 3.6V From Battery)***	G (0)

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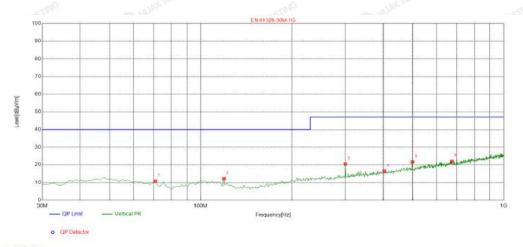


Suspected List

Suspe	cted List								
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	51.3614	-13.86	25.99	12.13	40.00	27.87	100	336	Horizontal
2	57.1872	-14.74	25.53	10.79	40.00	29.21	100	348	Horizontal
3	108.6486	-15.43	26.64	11.21	40.00	28.79	100	101	Horizontal
4	225.1652	-14.44	28.76	14.32	40.00	25.68	100	261	Horizontal
5	499.9500	-8.30	31.36	23.06	47.00	23.94	100	287	Horizontal
6	892.2222	-1.86	27.86	26.00	47.00	21.00	100	101	Horizontal



EUT:	Anemometer	Model Name :	TL-302
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2020-07-27
Test Mode :	Running	Polarization :	Vertical
Test Power :	DC 3.6V From Battery	W Marine	Mar.



Suspected List

Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	70.7808	-17.81	28.55	10.74	40.00	29.26	100	200	Vertical
2	119.3293	-16.99	29.18	12.19	40.00	27.81	100	354	Vertical
3	299.9299	-12.74	33.11	20.37	47.00	26.63	100	16	Vertical
4	403.8238	-10.33	26.85	16.52	47.00	30.48	100	102	Vertical
5	499.9500	-8.30	29.95	21.65	47.00	25.35	100	276	Vertical
6	674.7247	-4.71	26.75	22.04	47.00	24.96	100	234	Vertical





3.2.7 TEST RESULTS(1000~6000MHz)

1000	(A)	M0401	3000,11
EUT:	Anemometer	Model Name :	TL-302
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	N/A
Test Mode :	N/A	Polarization :	N/A
Test Power :	N/A	-15	KTESTING

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



3.3 HARMONICS CURRENT

3.3.1 LIMITS OF HARMONICS CURRENT

IEC 555-2							
	Table -	I		Table -	Ш		
Equipment	Harmonic	Max. Permissible	Equipment	Harmonic	Max. Permissible		
Category	Order	Harmonic Current	Category	Order	Harmonic Current		
	n	(in Ampers)		n	(in Ampers)		
	Odd	Harmonics		Odd	Harmonics		
	3	2.30		3	0.80		
	5	1.14		5	0.60		
	7	0.77		7	0.45		
Non	9	0.40	TV	9	0.30		
Portable	11	0.33	Receivers	11	0.17		
Tools	13	0.21		13	0.12		
or	or 15≤n≤39 0.15 · 15/n			15≤n≤39	0.10 · 15/n		
TV	Even Harmonics			Even	Harmonics		
Receivers 2 1		1.08		2	0.30		
	4	0.43		4	0.15		
	8	0.30					
	8≤n≤40	0.23 · 8/n		DC	0.05		

EN 61000-3-2/IEC 61000-3-2						
Equipment	Max. Permissible	Equipment	Harmonic	Max. Peri	missible	
Category	Harmonic Current	Category	Order	Harmonic	Current	
	(in Ampers)		n	(in A)	(mA/w)	
Class A	Class A Same as Limits Specified in 4-2.1, Table - I, but only odd harmonics required		3 5 7 9 11 13≤n≤39	2.30 1.14 0.77 0.40 0.33 see Table I	3.4 1.9 1.0 0.5 0.35 3.85/n	
			only o	dd harmonics r	equired	



3.3.1.1TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

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b. The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

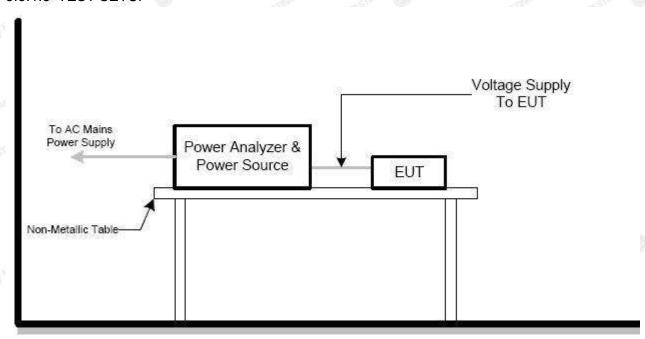
Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

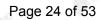
c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

3.3.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.1.3 TEST SETUP







3.3.2 TEST RESULTS

Alexander Table 1	1889 PM	10.7	Aller VV
EUT:	Anemometer	Model Name :	TL-302
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	9	0
Test Power :	N/A		T57105

Report No.: HK2007171804-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



3.4 VOLTAGE FLUCTUATION AND FLICKERS

3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Tests	Li	mits	Descriptions	
16212	IEC555-3 IEC/EN 61000-3-3		Descriptions	
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator	
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator	
dc	≤ 3%	≤ 3.3%	Relative Steady-State V-Chang	
dmax	≤ 4%	≤ 4%	Maximum Relative V-change	
d (t)	N/A	$\leq 3.3\%$ for $>500~ms$	Relative V-change characteristic	

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3.4.1.1TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

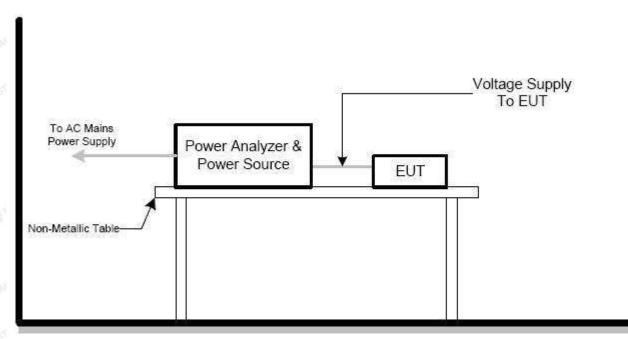
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

3.4.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.1.3 TEST SETUP







3.4.2 TEST RESULTS

555 cm	All all and the second	- 1500 A.	All the state of t
EUT:	Anemometer	Model Name :	TL-302
Temperature :	24 ℃	Relative Humidity:	45%
Pressure :	1010 hPa	Test Date :	N/A
Test Mode :	N/A	Ø 6	0
Test Power :	N/A		TEST195

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4. EMC IMMUNITY TEST

4.1 STANDARD COMPLIANCE/SERVRITY LEVEL/CRITERIA

Tests Standard No.	TEST SPECIFICATION	Test Mode Test Ports	Perform. Criteria
1. ESD IEC/EN 61000-4-2	8kV air discharge 4kV contact discharge	Direct Mode	В
120/214 01000-4-2	4kV HCP discharge 4kV VCP discharge	Indirect Mode	B
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz, 1000MHZ to 1400MHZ, 2000MHz to 2700MHz 1000Hz, 80%, AM modulated	Enclosure	A MARTEST
2 FFT/D	5/50ns Tr/Th 5KHz Repetition Freq.	Power Supply Port	В
3. EFT/Burst IEC/EN 61000-4-4	5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port	B RIANTE
4. Surges IEC/EN 61000-4-5	1.2/50(8/20) Tr/Th us	L-N	В
	1.2/50(8/20) Tr/Th us	L-PE N-PE	Bresting
	0.15 MHz to 80 MHz, 1000Hz 80 %, AM Modulated 150Ω source impedance	CTL/Signal Port	A A
5 Injected Current IEC/EN 61000-4-6	0.15 MHz to 80 MHz, 1000Hz 80 %, AM Modulated 150Ω source impedance	AC Power Port	A
	0.15 MHz to 80 MHz, 1000Hz 80 %, AM Modulated 150Ω source impedance	DC Power Port	A
6. Power Frequency Magnetic Field IEC/EN 61000-4-8	50 Hz,	Enclosure	(a) IN A
7. Volt. Interruptions Volt. Dips IEC/EN 61000-4-11	Voltage dip 100% Voltage dip 30% Interruption 100%	AC Power Port	B C C



4.2 GENERAL PERFORMANCE CRITERIA

According to EN 61326-2-2 standard, the general performance criteria as following:

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sCriterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment 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, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion B	After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
Criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

4.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



4.4 ESD TESTING

4.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	В
Discharge Voltage:	Air Discharge : 2kV/4kV/8kV (Direct)
	Contact Discharge : 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point
	Contact Discharge: min. 200 times in total
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

4.4.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.

If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

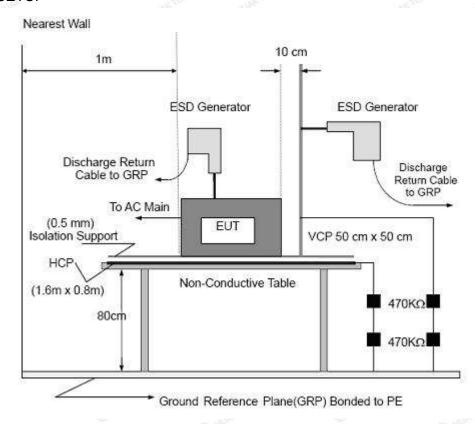
Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

b. Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.

4.4.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.



4.4.4 TEST RESULTS

EUT:	Anemometer	Model Name :	TL-302
Temperature :	24 °C	Relative Humidity:	45%
Pressure :	1010 hPa	Test Date :	2020-07-27
Test Mode :	Running	0, 6	0
Test Power :	DC 3.6V From Battery		TSTNG

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Mode			Air	Dis	cha	rge				C	Cont	act [Discl	harg	je			
Test level (kV)	4	4		8	1	0	1	5	:	2		4	6	3	8	3	Criterion	Result
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
HCP									Α	Α	Α	Α						PASS
VCP		-16	0				No.		Α	Α	Α	Α				2	6	PASS
A1	Α	Α	Α	Α	-	URKT			246	2010	JED.				لافريد	(Ep.		PASS
A2	Α	Α	Α	Α	0				16	3				100			€.	PASS
A3	Α	Α	Α	Α	67	E5/18/1									TEST	10		PASS
A4	Α	Α	Α	Α	SOUR					ESTI			(6)	D HOW			В	PASS
A5	Α	Α	Α	Α					100						G.		@	PASS
A6	Α	Α	Α	Α	20							F-52-	UNI PAR	(ES)				PASS
C1	18	1 Table	0				465	100	Α	Α	Α	Α	73.0			- 24	57NG	PASS
C2					- 6	B to			Α	Α	Α	Α			400.1	Obr.	(a) Hills	PASS
C3									Α	Α	Α	Α						PASS

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:
 - Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
- 3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
- 4) The Indirect (HCP/VCP) discharges description of test point as following:1.left side 2.right side 3.front side 4.rear side
- 5) N/A denotes test is not applicable in this test report



4.5 RS TESTING

4.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-3
Required Performance	A
Frequency Range:	80 MHz - 1000 MHz
	1.4 GHz – 2 GHz
	2.0 GHz – 2.7 GHz
Field Strength:	1 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

4.5.2 TEST PROCEDURE

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

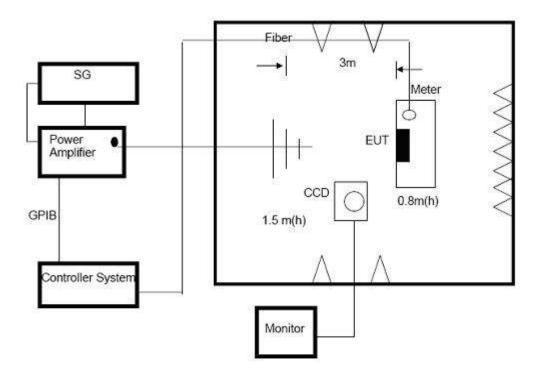
The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- a. The frequency range is swept from 80 MHz to 1000 MHz, & 1400MHz 2700MHz with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental
- b. Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.



4.5.3 TEST SETU



Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.



4.5.4 TEST RESULTS

EUT:	Anemometer	Model Name :	TL-302
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Date :	2020-07-27
Test Mode :	Running	0, 6	0
Test Power :	DC 3.6V From Battery	NP.	V.TESTING

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100		14 155			100	
Frequency Range	RF Field	R.F.	Azimuth	Perform.	Results	Judgment
(MHz)	Position	Field Strength	Azimum	Criteria	Results	Juagineni
ANTESTING WHATESTING	0,,	MAKTESTING - MA	Front	201	ESTING	
80MHz - 1000MHz	H/V	3 V/m (rms)	Rear	0,,,,	(6)	
1.4 GHz – 2.7 GHz		AM Modulated 1000Hz, 80%	Left	A HJAK-TES	A	PASS
No.		16 E	Right	STING.		

Note:

- 1) N/A denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.



4.6 EFT/BURST TESTING

4.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4
Required Performance	B _ MAY TESTIN _ MAY TESTIN _ MAY TE
Test Voltage:	Power Line: 1 kV
	Signal/Control Line: 0.5 kV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

4.6.2 TEST PROCEDURE

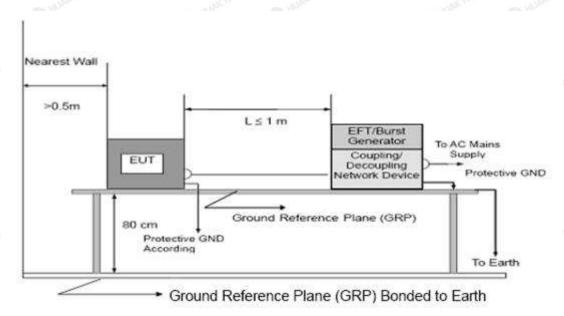
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

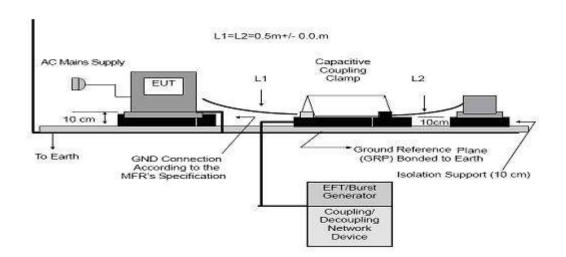
- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute



4.6.3 TEST SETUP



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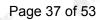
Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.





4.6.4 TEST RESULTS

1000		HD431	.012. 11. (E.G.)
EUT:	Anemometer	Model Name :	TL-302
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	(i)	0
Test Power :	N/A	-45	K.TESTING

Report No.: HK2007171804-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4.7 SURGE TESTING

4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance	B _ www.tesh _ whitesh _ white
Wave-Shape:	Combination Wave
	1.2/50 us Open Circuit Voltage
	8 /20 us Short Circuit Current
Test Voltage:	Power Line: 0.5 kV, 1 kV
Surge Input/Output:	L-N, L-PE, N-PE
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90/180/270°
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points

4.7.2 TEST PROCEDURE

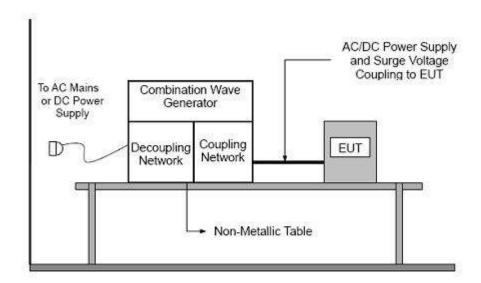
a. For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

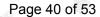
- b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT: The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:
- d. The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).



4.7.3 TEST SETUP



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4.7.4 TEST RESULTS

EUT:	Anemometer	Model Name :	TL-302	
Temperature :	N/A	Relative Humidity:	N/A	
Pressure :	N/A	Test Date :	N/A	MAN TESTIN
Test Mode :	N/A	0, 6	9	0
Test Power :	N/A	-154	K TESTING	NA:

Report No.: HK2007171804-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4.8 INJECTION CURRENT TESTING

4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance	A MARTESTA
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	1 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

4.8.2 TEST PROCEDURE

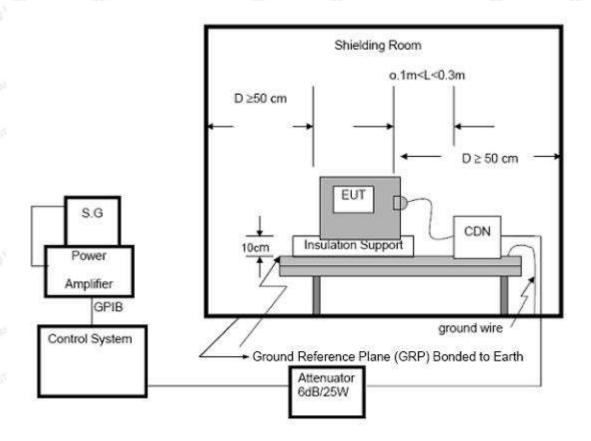
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- b. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.



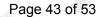
4.8.3 TEST SETUP



NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.





4.8.4 TEST RESULTS

EUT:	Anemometer	Model Name :	TL-302	
Temperature :	N/A	Relative Humidity:	N/A	
Pressure :	N/A	Test Date :	N/A	MAN TESTIN
Test Mode :	N/A	0, 6	9	0
Test Power :	N/A	-154	K TESTING	NA:

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4.9 POWER FREQUENCY MAGNETIC FIELD TESTING

4.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-8	
Required Performance	A MARTESTIN	_ max TE
Frequency Range:	50Hz	0
Field Strength:	30 A/m	TESTING
Observation Time:	1 minute	(1) HUANNE
Inductance Coil:	Rectangular type, 1mx1m	a.G

4.9.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

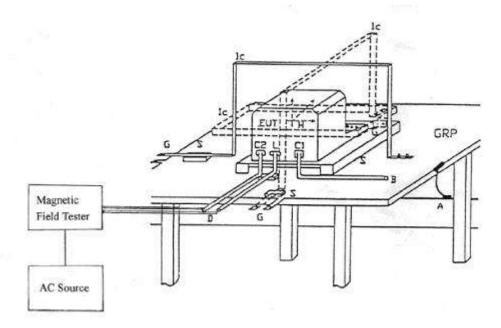
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The other condition as following manner:

- a. The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.
- b. The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.



4.9.3 TEST SETUP



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Note:

TABLE-TOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50 % of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.





4.9.4 TEST RESULTS

EUT:	Anemometer	Model Name :	TL-302	
Temperature :	N/A	Relative Humidity:	N/A	
Pressure :	N/A	Test Date :	N/A	MAN TESTIN
Test Mode :	N/A	0, 6	9	0
Test Power :	N/A	-154	K TESTING	NA:

Report No.: HK2007171804-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.



4.10 VOLTAGE INTERRUPTION/DIPS TESTING

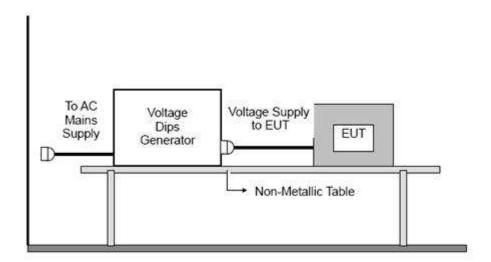
4.10.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11
Required Performance	B (For 100% Voltage Dips)
	C (For 30% Voltage Dips)
	C (For 100% Voltage Interruptions)
Test Duration Time:	Minimum three test events in sequence
Interval between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

4.10.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

4.10.3 TEST SETUP







4.10.4 TEST RESULTS

EUT:	Anemometer	Model Name :	TL-302	
Temperature :	N/A	Relative Humidity:	N/A	
Pressure :	N/A	Test Date :	N/A	WAY TESTIN
Test Mode :	N/A	0. 6	0	0.
Test Power :	N/A	AFA IN	KTESTING	3/60

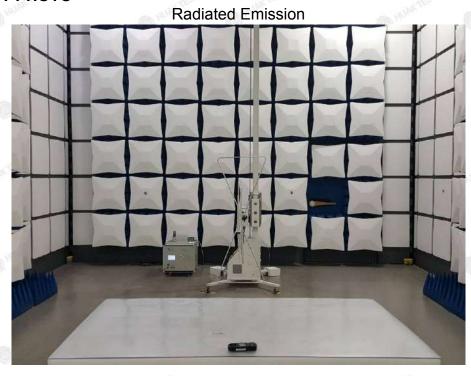
Report No.: HK2007171804-1ER

Note:

- 1). N/A denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.



5. EUT TEST PHOTO



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ATTACHMENT PHOTOGRAPHS OF EUT

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Photo 1

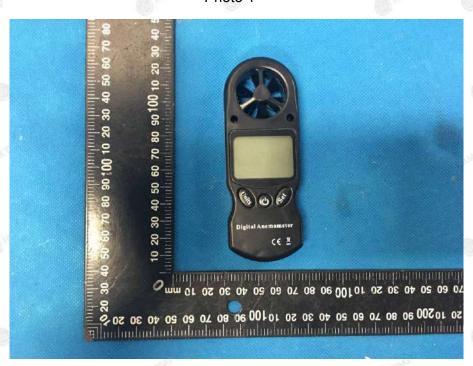


Photo 2



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Photo 3



Photo 4





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Photo 5

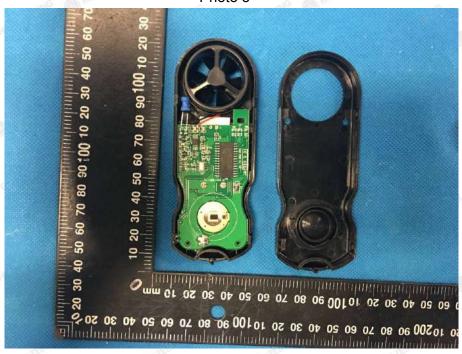
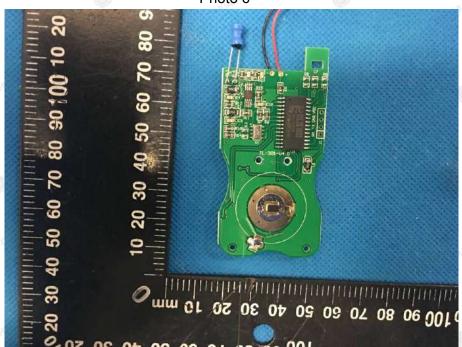
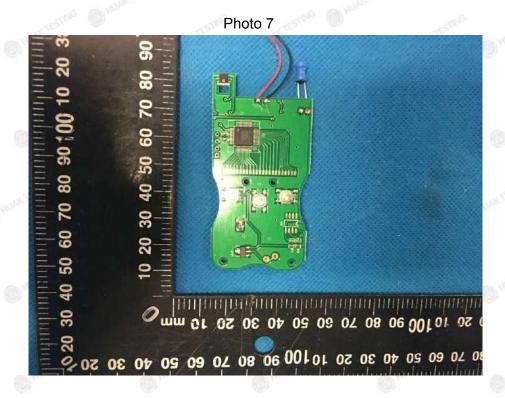


Photo 6





.....End of Report.....