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Report No.:SZEMO051001232TXE

Page:

1 of 14

TEST REPORT

Application No.:

SZEMO051001232TX

Applicant:

Wenzhou Songke Electric Corporation

Equipment Under Test (EUT):

EUT Name:

Automatic Faucet

Item No.:

DY-8801, DY-8802, DY-8803, DY-8804, DY-8805, DY-8806. DY-8808, DY-8801LR,

DY-8802LR*

Serial No.:

Not supplied by client

Please refer to section 2 of this report which indicates which item was actually

tested and which were electrically identical.

Standards:

EN 60669-2-1: 2000 + A2: 2001

Date of Receipt:

24 October 2005

Date of Test:

24 October 2005

Date of Issue:

27 October 2005

Test Result:

PASS*

In the configuration tested, the EUT detailed in this report complied with the Clause 26 of the standard specified above. Please refer to section 2 of this report for further details.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Decleration of Conformity and compliance with all relevant EC Directives.

Robinson Lo

Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf.

This report details the results of the testing carried out on one sample. The results out an amount of the results of the testing carried out on one sample. The results out an amount of the results of the results of the testing carried out on one sample. samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK. The manufacturer should consure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SCS International Electrical Approvals in connection with, distribution or use of the

thoduct described in this report must be approved by SGS International Electrical Approvals in writing. The report must not be used by the client to claim product certification approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All test results in this report can be traceable to National or international Standards.

Member of the SGS Group (SGS SA)

GENERAL CONDITIONS OF SERVICE

General

- (a) Unless otherwise agreed in writing or except where they are at variance with (i) the regulations governing services performed on behalf of governments, government bodies or any other public entity or (ii) the mandatory provisions of local law, ali offers or services and all resulting contractual relationship(s) between any of the affiliated companies of SGS SA or any of their agents (each a "Company") and Client (the "Contractual Relationship(s)") shall be governed by these general conditions of service (hereinafter the "General Conditions").
- (b) The Company may perform services for persons or entities (private, public or governmental) issuing instructions (hereinafter, the "Client").
- (c) Unless the Company receives prior written instructions to the contrary from Client, no other party is entitled to give instructions, particularly on the scope of the services or the delivery of reports or certificates resulting therefrom (the "Reports of Findings"). Client hereby irrevocably authorises the Company to deliver Reports of Findings to a third party where so instructed by Client or, at its discretion, where it implicitly follows from circumstances, trade custom, usage or practice.

2. Provision of Services

- (a) The Company will provide services using reasonable care and skill and in accordance with Client's specific instructions as confirmed by the Company or, in the absence of such instructions:
 - (1) the terms of any standard order form or standard specification sheet of the Company; and/or
 - (2) any relevant trade custom, usage or practice; and/or
 - (3) such methods as the Company shall consider appropriate on technical, operational and/or financial grounds.
- (b) Information stated in Reports of Findings is derived from the results of inspection or testing procedures carried out in accordance with the instructions of Client, and/or our assessment of such results on the basis of any technical standards, trade custom or practice, or other circumstances which should in our professional opinion be taken into account.
- (c) Reports of Findings issued further to the testing of samples contain the Company's opinion on those samples only and do not express any opinion upon the lot from which the samples were drawn.
- (d) Should Client request that the Company witness any third party intervention, Client agrees that the Company's sole responsibility is to be present at the time of the third party's intervention and to forward the results, or confirm the occurrence, of the intervention. Client agrees that the Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied, the qualifications, actions or omissions of third party personnel or the analysis results.
- (e) Reports of Findings issued by the Company will reflect the facts as recorded by it at the time of its intervention only and within the limits of the instructions received or, in the absence of such instructions, within the limits of the alternative parameters applied as provided for in clause 2(a). The Company is under no obligation to refer to, or report upon, any facts or circumstances which are outside the specific instructions received or alternative parameters applied.
- (f) The Company may delegate the performance of all or part of the services to an agent or subcontractor and Client authorises Company to disclose all information necessary for such performance to the agent or subcontractor.
- (g) Should Company receive documents reflecting engagements contracted between Client and third parties or third party documents, such as copies of sale contracts, letters of credit, bills of lading, etc., they are considered to be for information only, and do not extend or restrict the scope of the services or the obligations accepted by the Company.
- h) Client acknowledges that the Company, by providing the services, neither takes the place of Client or any third party, nor releases them from any of their obligations, nor otherwise assumes, abridges, abrogates or undertakes to discharge any duty of Client to any third party or that of any third party to Client.

 (i) All samples shall be retained for a maximum of 3 months or such other shorter time period as the nature of the sample permits and then returned to Client or otherwise disposed of at the
 - Company's discretion after which time Company shall cease to have any responsibility for such samples. Storage of samples for more than 3 months shall incur a storage charge payable by Client. Client will be billed a handling and freight fee if samples are returned. Special disposal charges will be billed to Client if incurred.

. Obligations of Client

The Client will:

- (a) ensure that sufficient information, instructions and documents are given in due time (and, in any event not later than 48 hours prior to the desired intervention) to enable the required services to be performed;
- (b) procure all necessary access for the Company's representatives to the premises where the services are to be performed and take all necessary steps to eliminate or remedy any obstacles to, or interruptions in, the performance of the services;
- (c) supply, if required, any special equipment and personnel necessary for the performance of the services;
- (d) ensure that all recessary measures are taken for safety and security of working conditions, sites and installations during the performance of services and will not rely, in this respect, on the Company's advice whether required or not;
- e) inform Company in advance of any known hazards or dangers, actual or potential, associated with any order or samples or testing including, for example, presence or risk of radiation, toxic or noxious or explosive elements or materials, environmental pollution or poisons;
- (f) fully exercise all its rights and discharge all its liabilities under any relevant sales or other contract with a third party and at law.

Fees and Payment

- (a) Fees not established between the Company and Client at the time the order is placed or a contract is negotiated shall be at the Company's standard rates (which are subject to change) and all applicable taxes shall be payable by Client.
- (b) Unless a shorter period is established in the invoice, Client will promptly pay not later than 30 days from the relevant invoice date or within such other period as may be established by the Company in the invoice (the "Due Date") all fees due to the Company failing which interest will become due at a rate of 1.5% per month (or such other rate as may be established in the invoice) from the Due Date up to and including the date payment is actually received.
- Client shall not be entitled to retain or defer payment of any sums due to the Company on account of any dispute, counter claim or set off which it may allege against the Company.
- d) Company may elect to bring action for the collection of unpaid fees in any court having competent jurisdiction.
- (e) Client shall pay all of the Company's collection costs, including atterney's fees and related costs.
- (f) In the event any unforeseen problems or expenses arise in the course of carrying out the services the Company shall endeavour to inform Client and shall be entitled to charge additional fees to cover extra time and cost necessarily incurred to complete the services.
- (g) If the Company is unable to perform all or part of the services for any cause whatsoever outside the Company's control including failure by Client to comply with any of its obligations provided for in clause 3 above the Company shall nevertheless be entitled to payment of:
 - (1) the amount of an non-refundable expenses incurred by the Company; and
 - (2) a proportion of the agreed fee equal to the proportion of the services actually carried out.

Suspension or Termination of Services

The Company shall be entitled to immediately and without liability either suspend or terminate provision of the services in the event of:

- (a) failure by the Client to comply with any of its obligations hereunder and such failure is not remedied within 10 days that notice of such failure has been notified to Client; or
- (b) any suspension of payment, arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business by Client.

6. Liability and indemnification

- (a) Limitation of Liability:
 - (1) The Company is neither an insurer nor a guarantor and disclaims all liability in such capacity. Clients seeking a guarantee against loss or damage should obtain appropriate insurance.
 - (2) Reports of Findings are issued on the basis of information, documents and/or samples provided by, or on behalf of, Client and solely for the benefit of Client who is responsible for acting as it sees fit on the basis of such Reports of Findings. Neither the Company nor any of its officers, employees, agents or subcontractors shall be liable to Client has any third party for any actions taken or not taken on the basis of such Reports of Findings nor for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to the Company.
 - (3) The Company shall not be liable for any delayed, partial or total non-performance of the services arising directly or indirectly from any event outside the Company's control including failure by Client to comply with any of its obligations hereunder.
 - (4) The hability of the Company in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim or US\$20,000 (or its equivalent in local currency), whichever is the lesser.
 - (5) The Company shall have no liability for any indirect or consequential loss (including loss of profits).
 - (6) In the event of any claim, Client must give written notice to the Company within 30 days of discovery of the facts alleged to justify such claim and, in any case, the Company shall be discharged from all liability for all claims for loss, damage or expense unless suit is brought within one year from:
 - (i) the date of performance by the Company of the service which gives rise to the claim; or
 - (ii) the date when the service should have been completed in the event of any alleged non-performance.
- (b) Indemnification: Client shall guarantee, hold parmless and indemnify the Company and its officers, employees, agents or subcontractors against all claims (actual or threatened) by any third party for loss, damage or expense of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance of any services.

7. Miscellaneous

- (a) If any one or more provisions of these General Conditions are found to be illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.
- (b) During the course of providing the services and for a period of one year thereafter Client shall not directly or indirectly entice, encourage or make any offer to Company's employees to leave their employment with the Company.
- (c) Use of the Company's corporate name or registered marks for advertising purposes is not permitted without the Company's prior written authorisation.

Governing Law, Jansahaden ene Dispute Resolution

Unless specifically agreed otherwise all disputes arising out or in connection with Contractual Relationship(s) hereunder shall be governed by the substantive laws of Switzerland exclusive of any rules with respect to conflicts of laws and be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed accordance with the said rules. The arbitration shall take place in Paris (France) and be conducted in the English language.

EC Declaration of Conformity

Council Directive 2004/108/EC on Electromagnetic Compatibility

We, Wenzhou Songke Electric Corporation Long Wai Hai Cheng Industrial Centre, Wenzhou, China

Certify that the product described is in conformity with the Directive 2004/108/EC as last amended by Directive 93/68/EEC

Product Name: Automatic Faucet

Item No.: DY-8801, DY-8802, DY-8803, DY-8804, DY-8805, DY-8806, DY-8808, DY-8801LR, DY-8802LR

The product has been assessed by the application of the following standards:

EN 60669-2-1: 2000 + A2: 2001

Issue date

Company stamp and Signature of authorized personnel

SGS SZ Job No.: SZEMO051001232TXE Page No.: 1 of 1



Report No.: SZEMO051001232TXE

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Page: 2 of 14

Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Emission Test	EN 60669-2- 1:2000 +A2: 2001	EN 55014-1 : 2000 +A1:2001 + A2:2002	Not Applicable *	N/A
ESD	EN 60669-2- 1:2000 +A2: 2001	EN 61000-4-2: 1995 +A1: 1998 +A2:2001	Contact ±2, 4 kV Air ±2, 4, 8 kV	PASS
Radiated Immunity, 80MHz to 1GHz	EN 60669-2- 1:2000 +A2: 2001	EN 61000-4-3: 2002 +A1:2002	3V/m, 80%, 1kHz, A.M.	PASS

REMARKS:

The EUT was powered by internal battery only, so that no test was applicable according to EN 55014-1: 2000 + A1:2001 + A2:2002.

Item No.: DY-8801, DY-8802, DY-8803, DY-8804, DY-8805, DY-8806, DY-8808, DY-8801LR, DY-8802LR

Only the Item DY-8802 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above items, with only difference being the outer decoration.

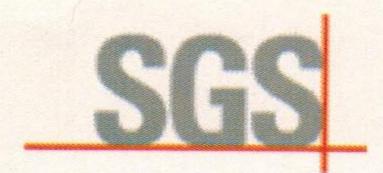


Report No.: SZEMO051001232TXE

Page: 3 of 14

3 Contents

			Page
1	COV	/ER PAGE	1
2	TES	T SUMMARY	2
•	001		
3		NTENTS	
4	GEN	NERAL INFORMATION	4
	4.1	CLIENT INFORMATION	1
	4.2	GENERAL DESCRIPTION OF E.U.T.	Δ
	4.3	DETAILS OF E.U.T.	4
	4.4	DESCRIPTION OF SUPPORT UNITS	
	4.5	STANDARDS APPLICABLE FOR TESTING	
	4.6	TEST LOCATION	
	4.7	TEST FACILITY	
	4.8	DEVIATION FROM STANDARDS	
	4.9	ABNORMALITIES FROM STANDARD CONDITIONS	
	4.10	MONITORING OF EUT FOR ALL IMMUNITY TEST	6
5	EQL	JIPMENTS USED DURING TEST	7
•	IBABA	IUNITY TEST RESULTS	•
6	IIVIIVI		
	6.1	PERFORMANCE CRITERIA DESCRIPTION IN CLAUSE 26.1 OF EN 60669-2-1	
	6.2	ESD	9
	6.2.	1 E.U.T. Operation	9
	6.2.2	2 Direct Application Test Results	
	6.3	RADIATED IMMUNITY 80MHz TO 1000MHz	11
	6.3.	1 E.U.T. Operation	11 11
7	PHO	DTOGRAPHS	
	7.1	ESD TEST SETUP	12
	7.2	RADIATED IMMUNITY TEST SETUP	12
	7.3	EUT CONSTRUCTIONAL DETAILS FOR MODIFIED SAMPLE	



Report No.: SZEMO051001232TXE

Page: 4 of 14

4 General Information

4.1 Client Information

Applicant:

Wenzhou Songke Electric Corporation

Address of Applicant:

Long Wai Hai Cheng Industrial Centre, Wenzhou, China

4.2 General Description of E.U.T.

EUT Name:

Automatic Faucet

Item No.:

DY-8801, DY-8802, DY-8803, DY-8804, DY-8805, DY-8806, DY-8808,

DY-8801LR, DY-8802LR*

Serial No.:

Not supplied by the client

*

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

4.3 Details of E.U.T.

Power Supply:

6.0V DC (4 x 1.5V 'AA' Size Batteries)

Power Cord:

N/A

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

The customer requested EMC tests for Automatic Faucet.

The standards used were EN 60669-2-1.

Table 1: Tests Carried Out Under EN 60669-2-1:2000 + A2: 2001 for switchs in household product

Standard	Status
EN 55014-1: 2000 + A1:2001 + A2:2002 Conducted Emissions on AC	×
EN 55014-1: 2000 + A1:2001 + A2:2002 Radiated Power	×
EN 55014-1: 2000 + A1:2001 + A2:2002 Discontinuous Emissions on AC	×

[×] Indicates that the test is not applicable, since the EUT was powered by internal battery.

[√] Indicates that the test is applicable.



Report No.: SZEMO051001232TXE

Page: 5 of 14

Table 2: Immunity Tests carried out under EN 60669-2-1:2000+A2:2001

	Standard	Status
EN 61000-4-2: 1995 + A1: 1998+A2 :20	01 Electrostatic discharge – enclosure port	1
EN 61000-4-3: 2002+A1:2002	Radiated, radio-frequency electromagnetic field – enclosure port	1
EN 61000-4-4: 1995+A1:2001+A2:2001	Electrical fast transients/burst – AC	×
EN 61000-4-4: 1995+A1:2001+A2:2001	Electrical fast transients/burst – DC	×
EN 61000-4-4: 1995+A1:2001+A2:2001	Electrical fast transients/burst - signal & control port	×
EN 61000-4-5: 1995 + A1: 2001	Surge Immunity- AC port	×
EN 61000-4-6: 1996+A1:2001	Immunity to conducted disturbances, induced by radio-frequency fields, injected currents – AC	×
EN 61000-4-6: 1996+A1:2001	Immunity to conducted disturbances, induced by radio-frequency fields, injected currents – DC	×
EN 61000-4-6: 1996+A1:2001	Immunity to conducted disturbances, induced by radio-frequency fields, injected currents-signal & control ports	×
EN 61000-4-8: 1993+A1:2001	50/60Hz Power-frequency magnetic field – enclosure port	×
EN 61000-4-11: 1994+A1:2001	Voltage dips & interruptions – AC port	×

[×] Indicates that the test is not applicable, since the EUT was powered by internal battery only.

4.6 Test Location

All tests were performed at:

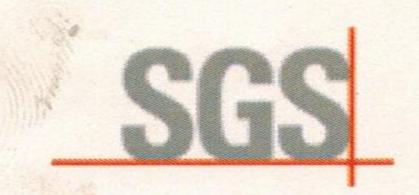
SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch EMC Lab, No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China. 518057.

Tel: +86 755 2601 2053

Fax: +86 755 2671 0594

No tests were sub-contracted.

[√] Indicates that the test is applicable.



Report No.: SZEMO051001232TXE

Page: 6 of 14

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

NVLAP – Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2004.

· ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

· VCCI

The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.

Date of Registration: June 01, 2005. Valid until February 22, 2008.

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAL - LAB Code: L0141

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

FCC – Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.

4.8 Deviation from Standards

All Immunity tests to EN 60669-2-1 were performed in accordance with EN 61000-4-x and not IEC1000-4-x. (x=2,3,4,5,6,8,11).

For the Radiated Immunity Test in the GTEM, 3 mutually orthogonal faces were tested.

4.9 Abnormalities from Standard Conditions

None.

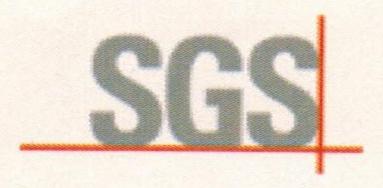
4.10 Monitoring of EUT for All Immunity Test

Visual:

Monitored the work status of the EUT.

Audio:

None.



Report No.: SZEMO051001232TXE

Page: 7 of 14

5 Equipments Used during Test

	ESD						
Item	Test Equipment	Manufacturer	Serial No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)		
1	ESD Simulator	SCHAFFNER	414	13-05-2005	12-05-2006		
2	ESD Ground Plane	SGS(3m * 3m)	SEL0004	N/A	N/A		

	Radiated Immunity					
Item	Test Equipment	Manufacturer	Serial No.	Cal. Date (dd-mm-yy)	Cal. Due date (dd-mm-yy)	
1	Signal Generator	Rohde & Schwarz	825675/018	10-09-2005	09-09-2006	
2	Amplifier 20M-1GHz	EMPOWER	1007	14-11-2003	13-11-2005	
3	Power Meter	Rohde & Schwarz	825770/074	07-05-2005	06-05-2006	
4	Power Sensor	Rohde & Schwarz	825802/013	07-05-2005	06-05-2006	
5	Dual Directional Coupler	Werlatone Inc.	6634	05-01-2004	04-01-2006	
6	Electric Field Probe	Wandel &Golterm ann	M-0063	27-04-2005	26-04-2006	
7	Oscilloscope Type 485	Tektronix	B144408	30-04-2005	29-04-2006	
8	Monitor System	Mitsubish Corp.	91510185	N/A	N/A	
9	Immunity S/W Ver4.31	Schaffner Chase	WHHPKB	N/A	N/A	
10	GTEM	Lindgreen-Rayproof	EMC0401	28-08-2005	27-08-2006	

General used equipment					
Item	Test Equipment	Manufacturer	Serial No.	Cal.Date (dd-mm-yy)	Cal.Duedate (dd-mm-yy)
1	Temperature, Humidity & Barometer	OREGON/VAISALA/ TESTO/ANDTEK	EMC0001 to EMC0004	30-08-2005	29-08-2006
2	DMM	Mastech	SEL0044	20-09-2005	19-09-2006



Report No.: SZEMO051001232TXE

Page: 8 of 14

6 Immunity Test Results

6.1 Performance Criteria Description in Clause 26.1 of EN 60669-2-1

VDips and During this test, the electronic switch state and/or setting may alter.

Interruptions: Occasional flickering of lamps or irregular running of motors during the test is neglected.

After the test, the electronic switch shall be in the original state and the setting shall be

unchanged.

Surge: During the test, the electronic switch state and/or setting shall not alter. Occasional

flickering of lamps or irregular running of motors during the test is neglected.

After the test, the electronic switch shall be in the original switch state and the setting

shall be unchanged.

EFT: During this test, the electronic switch state and/or setting may alter.

Occasional flickering of lamps or irregular running of motors during the test is neglected.

After the test, the electronic switch shall be in the original state and the setting shall be

unchanged.

NOTE If any change in the setting occurs, it should be possible to restore the setting by

operation of the control(s).

ESD: During this test, the electronic switch state and/or the setting may alter.

Occasional flickering of lamps or irregular running of motors during the test is neglected.

After the test, the electronic switch shall be in the original state and the setting shall be

unchanged.

NOTE 1 If any change in the setting occurs, it should be possible to restore the setting

by operation of the control(s).

NOTE 2 Certain electronic switches (e.g. passive infrared switch - PIR switches) with an

adjustable time delay device should be adjusted in such a way that the time delay is

higher than the testing time.

RI: During the test, the electronic switch state shall not change.

Flickering of lamps or irregular running of motors during the test is not allowed.

After the test, the electronic switch shall be in the original state and the setting shall be

unchanged.

Time Delay Switches (TDS) shall be in the original state after the time delay.

CI: During the test, the electronic switch state shall not change.

Flickering of lamps or irregular running of motors during the test is not allowed.

After the test, the electronic switch shall be in the original state and the setting shall be

unchanged.



Report No.: SZEMO051001232TXE

Page: 9 of 14

6.2 **ESD**

Test Requirement:

EN 60669-2-1

Test Method:

EN 61000-4-2

Test Date:

24 October 2005

Discharge Impedance:

330 Ω / 150 pF

Discharge Voltage:

Air Discharge:

2, 4, 8 kV

Contact Discharge:

2, 4 kV

VCP:

2, 4 kV

Polarity:

Positive & Negative

Number of Discharge:

Minimum 10 times at each test point

Discharge Mode:

Single Discharge

Discharge Period:

1 second minimum

6.2.1 E.U.T. Operation

Operating Environment:

Temperature:

23.0 °C

Humidity:

52 % RH

Atmospheric Pressure:

1006 mbar

EUT Operation:

Test the EUT in On Mode and Idle Mode.



Report No.: SZEMO051001232TXE

Page: 10 of 14

6.2.2 Direct Application Test Results

Observations:

Test Point:

1. All insulated enclosure and seams.

2. All accessible metal parts of the enclosure.

Direct Application			Test I	Results
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge
2, 4, 8	+/-	1	N/A	N/A
2, 4	+/-	2	Α .	N/A

Indirect Application Test Results

Observations:

Test Point:

1. All sides.

Indirect Application			Test Results		
Discharge Level (kV)	Polarity (+/-)	Test Point	Horizontal Coupling	Vertical Coupling	
2, 4	+/-	1	N/A	Α	

Results:

A: No degradation in the performance of the EUT was observed.

N/A: Not applicable (floor mounted EUT or not requested by Standard)



Report No.: SZEMO051001232TXE

Page: 11 of 14

6.3 Radiated Immunity 80MHz to 1000MHz

Test Requirement:

EN 60669-2-1

Test Method:

EN 61000-4-3

Test Date:

24 October 2005

Frequency Range:

80MHz to 1GHz

Test level:

3V/m on enclosure

Modulation:

80%, 1kHz Amplitude Modulation

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 27.0 °C

Humidity:

56 % RH

Atmospheric Pressure:

1008 mb

EUT Operation:

Test the EUT in On Mode and Idle Mode.

6.3.2 Test Results:

Frequency	Level	Modulation	EUT Face	Result / Observations
80MHz-1GHz	1kHz,	X	Α	
	3V/m		Y	Α
			Z	A

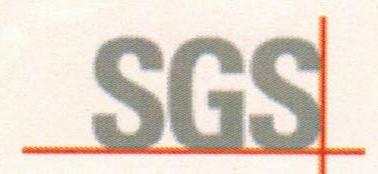
Remarks:

X: EUT as per photograph in section 7.2 of this report.

Y: As X, but rotate EUT by 90° clockwise.

Z: As Y, but rotate EUT by 90° vertically.

A: No loss of function.

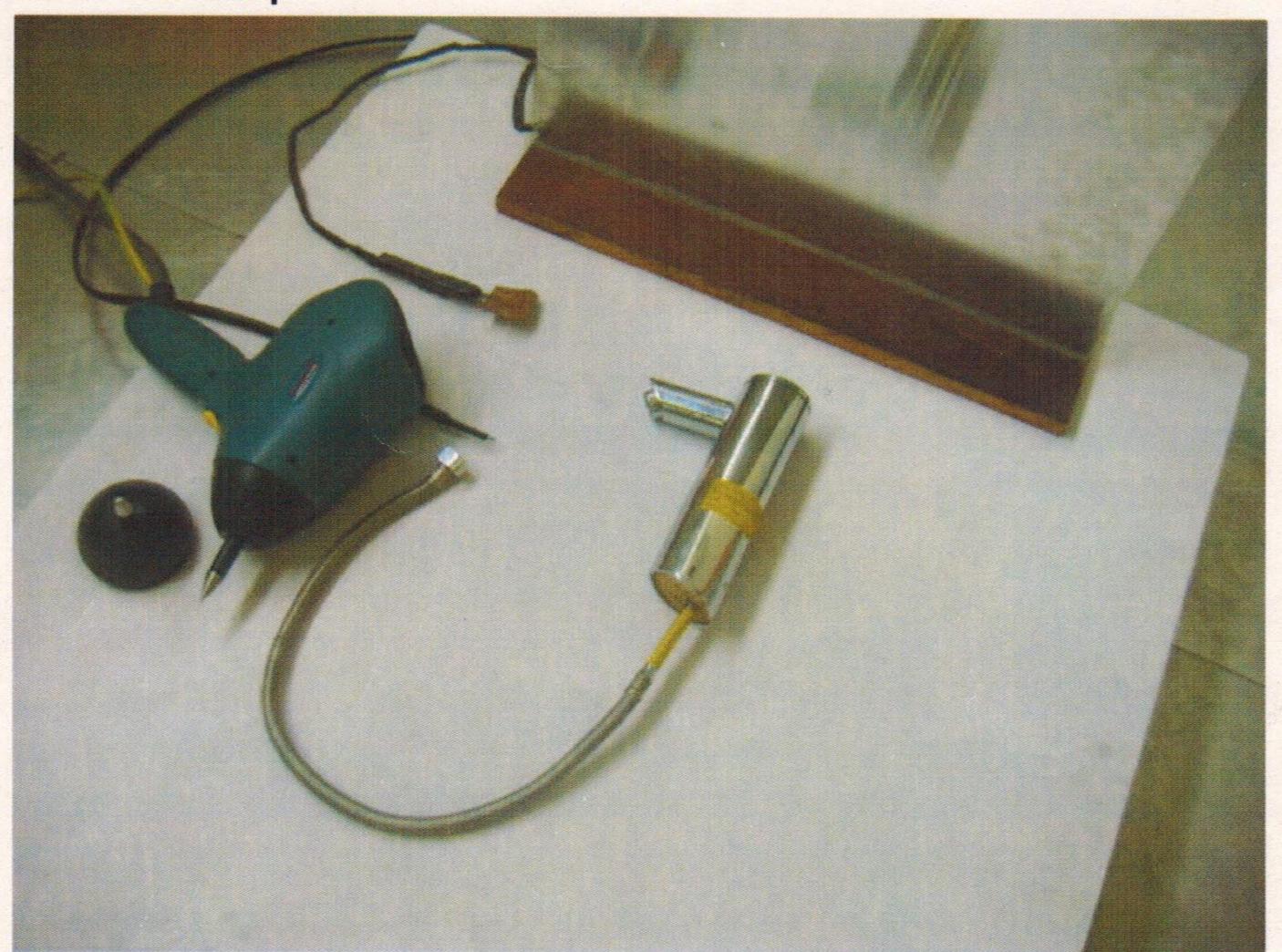


Report No.: SZEMO051001232TXE

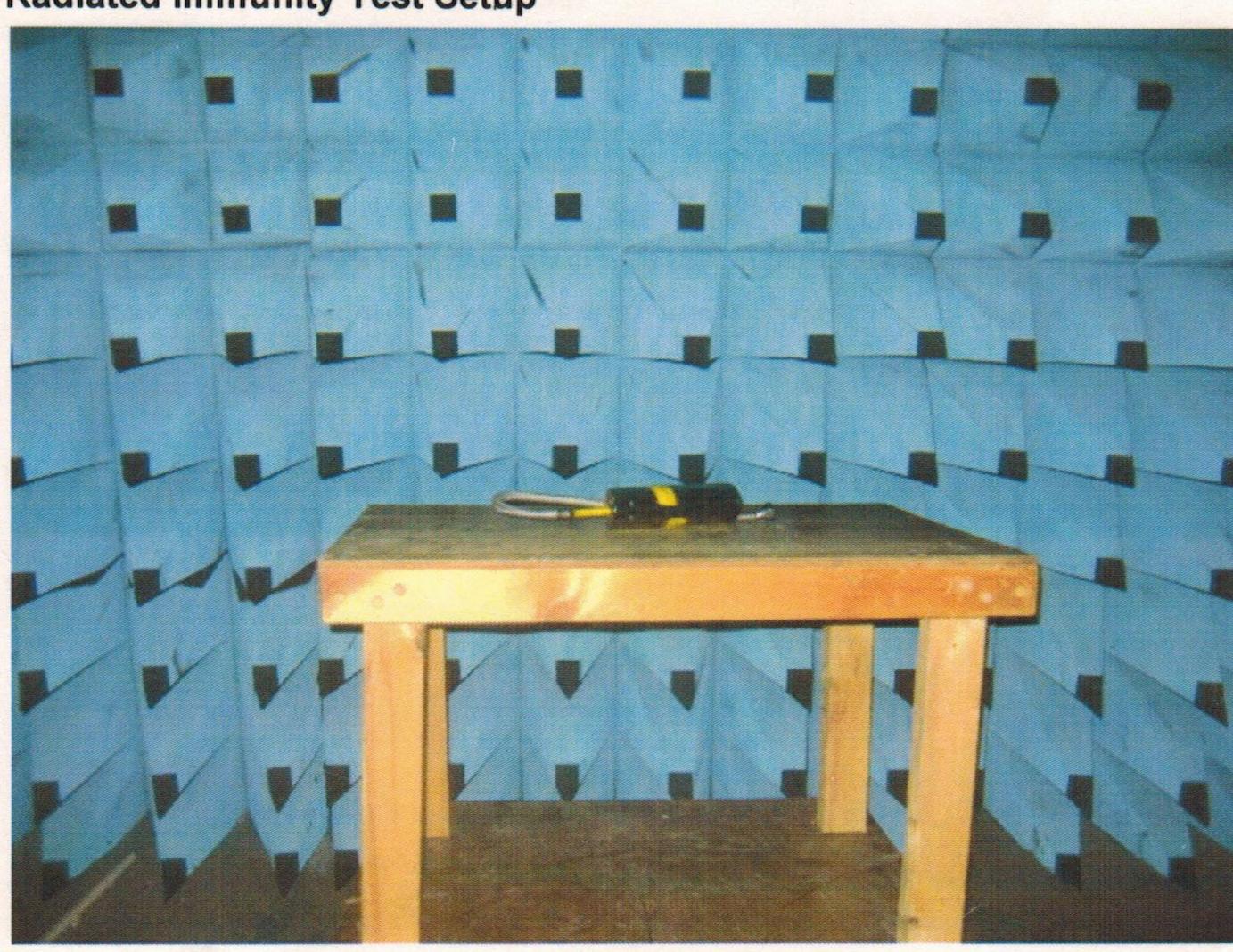
Page: 12 of 14

7 Photographs

7.1 ESD Test Setup



7.2 Radiated Immunity Test Setup

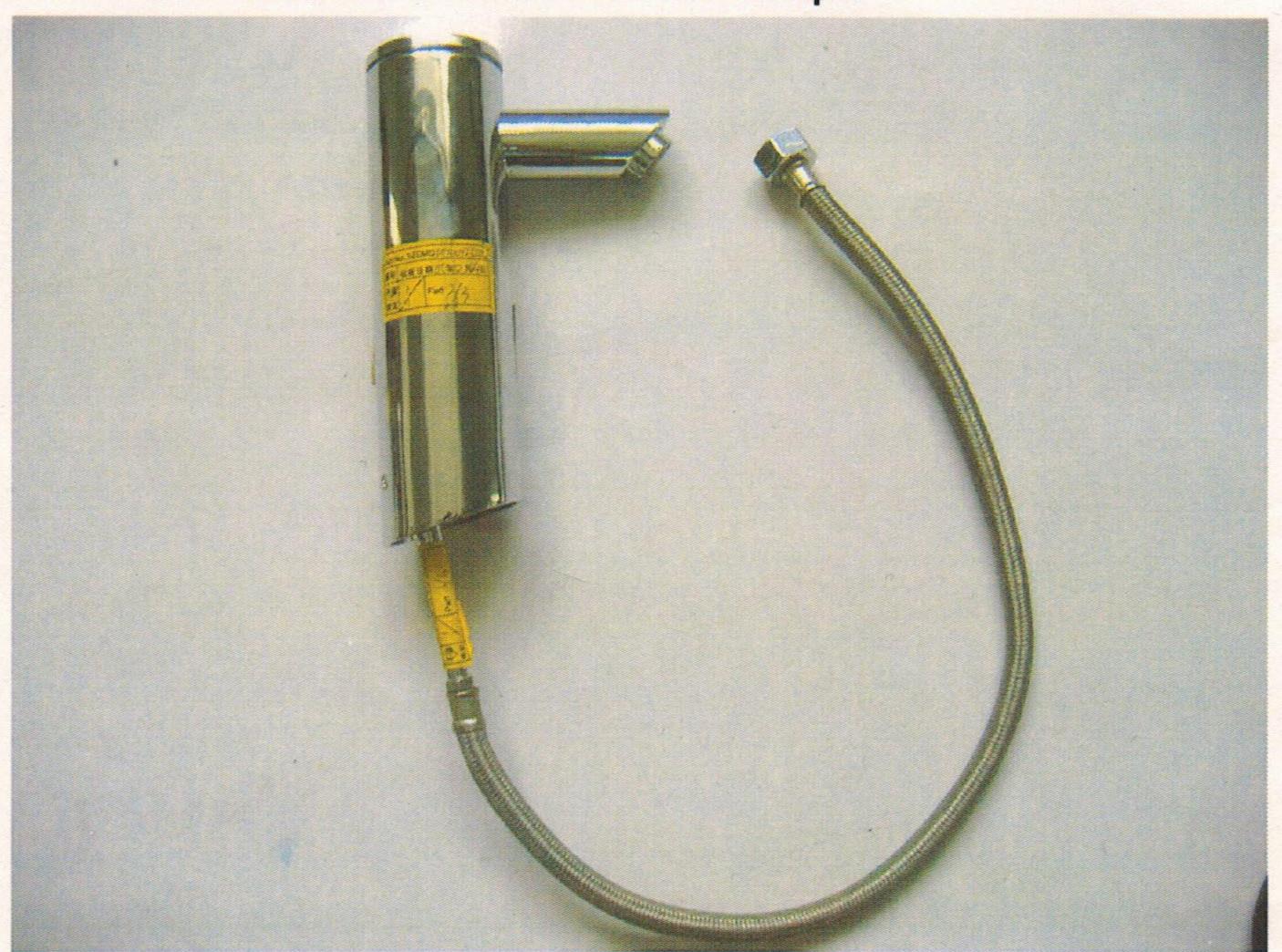


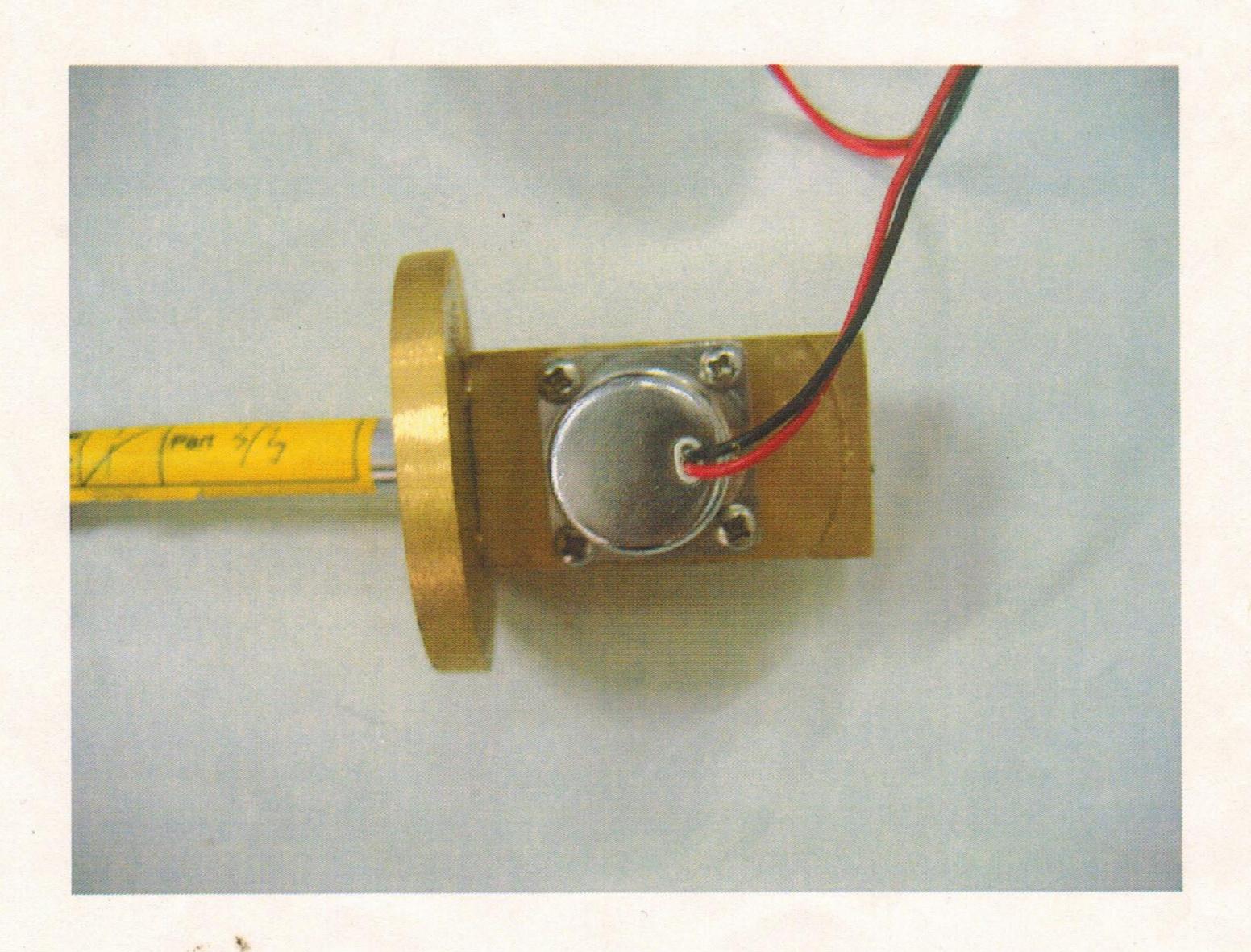


Report No.: SZEMO051001232TXE

Page: 13 of 14

7.3 EUT Constructional Details for modified sample







Report No.: SZEMO051001232TXE

Page: 14 of 14

