

## Certificate of Compliance

No. 0H200404.HHEDO66



**Certificate's Holder:** Hunan Honggao Electronic Technology Co., Ltd.  
Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park, Nanxian Economic Development Zone, Yiyang, Hunan Province.



**Product:** Infrared Forehead Thermometer  
**Model(s):** HG01, HG02, HG03, HG04, HG05, HG06, HGB01, HGB02, HGB03, HGB04, HGB05, HGB06, F101, F102, F103

**Verification to:** Standard:  
EN 60601-1:2006+A11:2011+A1:2013+A12:2014,  
EN 55011:2016+A1:2017, EN 60601-1-2:2017,  
EN 61000-3-2:2014, EN 61000-3-3:2013

related to CE Directive(s):  
2014/35/EU (Low Voltage)  
2014/30/EU (Electromagnetic Compatibility)

**Remark:** This document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the products accordingly to the ECM regulation about its release and its use.

Additional information and clarification about the Marking:



The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary Mark for the certification of products. RG01\_ECM rev.3 available at: [www.entecerma.it](http://www.entecerma.it)

**Issuance date:** 04 April 2020

**Expiry date:** 03 April 2025

Reviewer  
Technical expert  
Amanda Payne

Approver  
ECM Service Director  
Luca Bedonni

**Ente Certificazione Macchine Srl**

Via Cabibella, 243 - Loc. Castello di Serravalle - 40053 Valsamoggia (BO) - ITALY  
☎ +39 051 6705141 📠 +39 051 6705156 ✉ [info@entecerma.it](mailto:info@entecerma.it) 🌐 [www.entecerma.it](http://www.entecerma.it)



# 美国FDA认证



Fiscal Year 2020

## CERTIFICATE OF FDA REGISTRATION

This certifies that:

**HUNAN HONGGAO ELECTRONIC TECHNOLOGY CO., LTD**

**Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park, Nanxian Economic  
Development Zone Yiyang, Hunan, 431200, CHINA**

has completed the FDA Establishment Registration and Device Listing with the US Food & Drug  
Administration, through UCL-REG SERVICE INC.

**Owner/Operator Number: 10064921**

**Listing No.**  
D380324

**Product Code:**  
PXH

**Device Name:**  
Thermometer kit

Medical infrared thermometer HG01 HG02, HG03,  
HG04, HG05, HG06 HGB01, HGB02, HGB03, HGB04,  
HGB05, HGB06

*UCL-REG SERVICE INC. will confirm that such registration remains effective upon request and presentation of  
this certificate until the end of the calendar year stated above, unless said registration is terminated after  
issuance of this certificate. UCL-REG SERVICE INC. makes no other representations or warranties, nor does this  
certificate make any representations or warranties to any person or entity other than the named certificate holder,  
for whose sole benefit it is issued. This certificate does not denote endorsement or approval of the  
certificate-holder's device or establishment by the U.S. Food and Drug Administration. UCL-REG SERVICE INC.  
assumes no liability to any person or entity in connection with the foregoing.*

*Pursuant to 21 CFR 807.39, "Registration of a device establishment or assignment of a registration number does  
not in any way denote approval of the establishment or its products. Any representation that creates an  
impression of official approval because of registration or possession of a registration number is misleading and  
constitutes misbranding."*

*The U.S. Food and Drug Administration does not issue a certificate of registration, nor does the U.S. Food and  
Drug Administration recognize a certificate of registration. UCL-REG SERVICE INC. is not affiliated with the U.S.  
Food and Drug Administration.*



UCL-REGSERVICE INC.

602 ROCKWOOD ROAD, WILMINGTON,  
NEW CASTLE DE 19802 USA

For and on behalf of  
UCL-REG SERVICE INC.

Cert. No.: M20710

Issued Date: 27 March 2020

Expiration Date: 31 December 2020





**精准检测**  
PRECISE TESTING

# SDoC's Compliance Information Statement

No.: PTC20031812401E-FC01

**Applicant** : Hunan Honggao Electronic Technology Co., Ltd  
**Address** : Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park,  
Nanxian Economic Development Zone, Yiyang, Hunan Province  
**Manufacturer** : Hunan Honggao Electronic Technology Co., Ltd  
**Address** : Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park,  
Nanxian Economic Development Zone, Yiyang, Hunan Province  
**Trade Mark** : N/A  
**Product** : Infrared Thermometer  
**Model No.** : HG01; HG02; HG03; HG04; HG05; HG06; HGB01; HGB02; HGB03;  
HGB04; HGB05; HGB06; F101; F102; F103

The submitted sample of the above equipment has been tested and found to comply with the following requirement of 47 CFR of PART 15.

The assessment of compliance of the product with the requirements relating to FCC rules was based on the following standards and procedure:

Applicable Standard(s)	Test Report(s) Number
FCC Part 15, Subpart B ANSI C63.4:2014	PTC20031812401E-FC01

This verification is part of the full test report(s) and should be read in conjunction with it. This verification is based on an evaluation of one sample of above mentioned product. It does not imply assessment of the production of the product. Without the written approval of Precise Testing & Certification (Guangdong) Co., Ltd. , this verification is not permitted to be reproduced, except in full. It is not permitted to use the test lab's logo.



**Jacky Ou**  
**Manager**

**Date: March 25, 2020**

Precise Testing & Certification (Guangdong) Co., Ltd.  
Building 1, No.6, Tongxin Road, Dongcheng Street,  
Dongguan, Guangdong, China  
Tel: 86 769 38808222 Web: www.ptc-testing.com  
Mail: inquiry@ptc-testing.com





**精准检测**  
PRECISE TESTING

## CERTIFICATE OF CONFORMITY

No.: PTC20031202601C-CP01

**Applicant** : Hunan Honggao Electronic Technology Co., Ltd  
**Address** : Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park,  
Nanxian Economic Development Zone, Yiyang, Hunan Province  
**Manufacturer** : Hunan Honggao Electronic Technology Co., Ltd  
**Address** : Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park,  
Nanxian Economic Development Zone, Yiyang, Hunan Province  
**TradeMark** : /  
**ProductName** : Infrared thermometer  
**ModelNo.** : HG01、HG02、HG03、HG04、HG05、HG06、HGB01、HGB02、  
HGB03、HGB04、HGB05、HGB06、F101、F102、F103

The submitted sample of the above equipment has been tested and found to comply with the following European Directive:

**RoHS Directive 2011/65/EU & EUNo. 2015/863**

The standard(s) used for showing compliance with the essential requirements:

Applicable Standard(s)	Test Report(s) Number
IEC 62321-1:2013, IEC 62321-2:2013 IEC 62321-3-1:2013, IEC 62321-3-2:2013 IEC 62321-4:2013, IEC 62321-5:2013 IEC 62321-6:2015, IEC 62321-7-1: 2015 IEC 62321-7-2: 2017, IEC 62321-8:2017	<b>PTC20031202601C-CP01</b>

This certificate is part of the full test report(s) and should be read in conjunction with it. This certificate is based on an evaluation of one sample of the above mentioned product. It does not imply assessment of the production of the product. Without the written approval of Precise Testing & Certification (Guangdong) Co., Ltd., this certificate is not permitted to be reproduced, except in full. It is not permitted to use the test lab's logo.

# RoHS



*Jacky Ou*

**Jacky Ou**  
**Manager**  
**Date: Mar. 23, 2020**

Precise Testing & Certification (Guangdong) Co., Ltd.  
Building 1, No. 6, Tongxin Road, Dongcheng Street,  
Dongguan, Guangdong, China  
Tel: 86 769 38808222 Web: www.ptc-testing.com  
Mail: inquiry@ptc-testing.com





# *Certificate of Registration*



*The Governing Board of  
ARES INTERNATIONAL CERTIFICATION CO., LTD.  
hereby grants to :*

**Hunan Honggao Electronic Technology Co., Ltd.**  
(Organization Credit Code: 91430921MA4R0CBE69)

**Building 5, Tenghui Pioneer Park Comprehensive Industrial Park, Nanxian  
Economic Development Zone, Yiyang City, Hunan Province, P.R. China**

*Has been assessed and found to be in accordance with the requirements of  
standard detailed below*

**YY/T0287-2017/ISO13485:2016**

*Scope*

**The Design and Production of Infrared Thermometer**

Authorized by : *Chiaojuen*



Certificate Number: ARES/CN/G2003073M  
Initial Certificate Date: 2020-04-15

Registration Expiration Date: 2023-04-14

Note: The time interval between each surveillance audit and the last on-site audit shall not exceed 12 months, and the organization must obtain "surveillance audit approval notification" issued by ARES to ensure the validity of the certificate



**ARES INTERNATIONAL CERTIFICATION CO., LTD.**

No.12-2, Ln.187, Wenping Rd., Anping Dist., Tainan City 708, Taiwan

TEL : +886-6-2959696

FAX : +886-6-2959667

www.ares-registration.com

Check the validity of certificate at [www.cnca.gov.cn](http://www.cnca.gov.cn) or [www.ares-china.cn](http://www.ares-china.cn)





# Certificate of Registration



The Governing Board of  
ARES INTERNATIONAL CERTIFICATION CO., LTD.  
hereby grants to :

湖南泓高电子科技有限公司

(统一社会信用代码: 91430921MA4R0CBE69)

中国湖南省益阳市南县经济开发区  
腾辉创业园综合产业园 5 号栋

医疗器械质量管理体系符合

YY/T0287-2017/ISO13485:2016

认证范围

红外测温仪的设计和生

批准:

*Chiaojuen*



证书编号: ARES/CN/G2003073M

证书签发日期: 2020年04月15日

注册有效日期: 2023年04月14日

注: 每次监督审核时间与上次现场审核时间间隔不得超过12个月, 且必须取得ARES签发的监督审核通过证明以确保证书有效性。



ARES INTERNATIONAL CERTIFICATION CO., LTD.

No.12-2, Ln.187, Wenping Rd., Anping Dist., Tainan City 708, Taiwan

TEL : +886-6-2959696

FAX : +886-6-2959667

www.ares-registration.com

Check the validity of certificate at [www.cnca.gov.cn](http://www.cnca.gov.cn) or [www.ares-china.cn](http://www.ares-china.cn)





中国认可  
国际互认  
检测  
TESTING  
CNAS L0095

共 37 页 第 1 页

No. WTS2020-3934-1

## 检 测 报 告 TEST REPORT

产品名称：  
NAME OF SAMPLE

医用红外体温计

受检单位：  
CLIENT

湖南泓高电子科技有限公司

检测类别：  
CLASSIFICATION OF TEST

委托检测







中国认可  
国际互认  
检测  
TESTING  
CNAS L5772

<b>EN 60601-1: 2006</b> <b>Medical electrical equipment</b> <b>Part 1: General requirements for basic safety and essential performance</b>	
<b>Report Reference No.</b> .....	PTC20031202601S-LD01
<b>Date of issue</b> .....	March 17, 2020
<b>Total number of pages</b> .....	106
<b>Tested by</b> <b>(name + signature)</b> .....	Soap Hu
<b>Approved by</b> <b>(name + signature)</b> .....	Chris Du
<b>Testing Laboratory</b> .....	Precise Testing & Certification (Guangdong) Co., Ltd.
<b>Address</b> .....	Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.
<b>Applicant's name</b> .....	Hunan Honggao Electronic Technology Co., Ltd
<b>Address</b> .....	Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park, Nanxian Economic Development Zone, Yiyang, Hunan Province
<b>Test specification:</b>	
<b>Standard</b> .....	EN 60601-1: 2006 + A11:2011 + A1:2013 + A12:2014
<b>Test procedure</b> .....	IEC Report
<b>Non-standard test method</b> .....	N/A
<b>Test Report Form No.</b> .....	IEC60601_1P
<b>Test Report Form(s) Originator</b> .....	UL(US)
<b>Master TRF</b> .....	2019-10-11
<b>Test item description</b> .....	Infrared Thermometer
<b>Trade Mark</b> .....	N/A
<b>Manufacturer</b> .....	Same as Applicant
<b>Address</b> .....	Same as Applicant
<b>Model/Type reference</b> .....	HG01, HG02, HG03, HG04, HG05, HG06, HGB01, HGB02, HGB03, HGB04, HGB05, HGB06, F101, F102, F103
<b>Ratings</b> .....	Battery: DC 3.0V



中华人民共和国  
PEOPLE'S REPUBLIC OF CHINA  
医疗器械产品出口销售证明  
CERTIFICATE FOR EXPORTATION OF MEDICAL  
PRODUCTS

证书编号: 湘药监械出 20200050 号  
Certificate NO.: HNMPA 20200050

产品名称: 医用红外额温计  
Product(s): Medical infrared thermometer

规格型号: HG01, HG02, HG03  
specification and type: HG01, HG02, HG03

产品注册或备案凭证号: 湘械注准 20202070605  
Registration certificate(s): Hunan Medical Devices Registration  
Certificate No. 20202070605

生产企业: 湖南泓高电子科技有限公司  
Manufacturer: Hunan Honggao Electronic Technology Co., Ltd

生产企业住所: 湖南省益阳市南县经济开发区腾辉创业园综合产业园 5 号栋  
Address of manufacturer: Building No. 5, Tenghui business park,  
Economic Development Zone, Nanxian County, Yiyang City, Hunan  
Province, China

生产许可或备案凭证号: 湘食药监械生产许 20200041 号  
Manufacturing License(s): Hunan CFDA production permit NO. 20200041

兹证明上述产品已准许在中国生产和销售。  
This is to certify that the above products have been  
registered to be manufactured and sold in China.

证明有效日期至: 2022 年 3 月 31 日  
This certification valid until: Mar. 31, 2022

湖南省药品监督管理局  
HUNAN MEDICAL PRODUCTS ADMINISTRATION

2020 年 4 月 1 日  
Apr. 1, 2020

# 泓高营业执照副本

## 统一社会信用代码91430921MA4R0CBE69

		
统一社会信用代码 91430921MA4R0CBE69	<b>营 业 执 照</b> (副 本) 副本编号: 1 - 1	 扫描二维码登录 “国家企业信用 信息公示系统” 了解更多登记、 备案、许可、监 管信息。
名 称 湖南泓高电子科技有限公司	注 册 资 本 贰仟万元整	
类 型 有限责任公司(自然人投资或控股)	成 立 日 期 2019年11月22日	
法 定 代 表 人 聂永富	营 业 期 限 长期	
经 营 范 围 医疗器械制造、销售；其他电子专用设备制造；电子产品研发、制造、销售；电子产品的国内贸易、国际贸易。（依法须经批准的项目，经相关部门批准后方可开展经营活动）	住 所 湖南省益阳市南县经济开发区腾辉创业园综合产业园5号栋	
登记机关 		2020年2月28日

国家企业信用信息公示系统网址: <http://www.gsxt.gov.cn>

市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示年度报告。

国家市场监督管理总局监



## 海关进出口货物收发货人备案回执

企业名称	湖南泓高电子科技有限公司
统一社会信用代码	91430921MA4R0CBE69
海关备案日期	2020-03-20
海关编码	43099609CE
检验检疫备案号	4354500048
有效期	长期

益阳海关

2020年3月20日

自然人、法人或者非法人组织可通过“中国海关企业进出口信用信息公示平台”  
( <http://credit.customs.gov.cn> ) 或者 “ 互 联 网 + 海 关 ”  
( <http://online.customs.gov.cn> ) 查询海关公示的企业信息。

# 泓高医疗器械生产许可证

## 湘食药监械生产许20200041

### 医疗器械生产许可证

许可证编号：湘食药监械生产许20200041号

企业名称：湖南泓高电子科技有限公司

生产地址：湖南省益阳市南县经济开发区腾辉创业园综合产业园5号栋

法定代表人：聂永富

生产范围：II类：07-03 生理参数分析测量设备

企业负责人：聂文芳

住所：湖南省益阳市南县

发证部门：湖南省药品监督管理局

有效期限：至 2025 年 03 月 22 日 发证日期：2020 年 03 月 23 日

国家药品监督管理局制





# 中国海关企业进出口信用信息公示平台

Credit publicity platform of import and export business of Customs of the People's Republic of China



搜索

**湖南泓高电子科技有限公司**

统一社会信用代码：91430921MA4R0CBE69    海关编码：43099609CE    注册海关：益阳海关

经营类别：进出口货物收发货人

白名单企业

尺寸：70X60mm

QUALIFIED CERTIFICATE

合格证

Product Name: 产品名称	Medical infrared thermometer 医用红外额温计
Item NO 型号	HG01
Brand 品牌	DIKANG 滴康
Manufacturer 制造商	Hunan Honggao Electronic Technology Co., Ltd 湖南泓高电子科技有限公司
Address 地址	Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park, Nanxian Economic Development Zone, Yiyang, Hunan Province 湖南省益阳市南县经济开发区腾辉创业园综合产业园5号楼
Medical device registration number: 注册证号	湘械注准20202070605
Medical device manufacturer license number: 生产许可证号	湘食药监械生产许20200041
Executive Standard: 执行标准	GB/T 21417.1-2008; GB 9706.1-2007; YY 0505-2012
Batch No.: 批次号	202004-16
Date of manufacture: 生产日期	
Preservative Period: 有效期	2 years
Inspector: 检验员	

After inspected, confirm the product meets quality requirements of the standard. 经检查，产品符合标准规定的质量要求。



# 中国国际贸易促进委员会

China Council for the Promotion of International Trade  
China Chamber of International Commerce

## 证明书

CERTIFICATE



号码 No. 204300B0/001196

兹证明：所附由湖南省药品监督管理局颁发的第湘药监械出  
20200050号中华人民共和国医疗器械产品出口销售证  
明的影印件与原件相符。

THIS IS TO CERTIFY THAT: the annexed photostated copy of  
CERTIFICATE FOR EXPORTATION OF MEDICAL PRODUCTS OF THE  
PEOPLE'S REPUBLIC OF CHINA NO. HNMPA20200050 issued by  
HUNAN MEDICAL PRODUCTS ADMINISTRATION is in conformity  
with the original.

China Council for the Promotion  
of International Trade

授权签字:

Authorized  
Signature:

ZHANG XIAOLING

日期: 2020年05月19日

(Date: May. 19, 2020)

证  
网址 Website for verifying the certificate: <http://www.rzccpit.com/validate.html>

中华人民共和国  
PEOPLE'S REPUBLIC OF CHINA  
医疗器械产品出口销售证明  
CERTIFICATE FOR EXPORTATION OF MEDICAL  
PRODUCTS

证书编号: 湘药监械出 20200050 号  
Certificate NO.: HNMPA 20200050

产品名称: 医用红外额温计  
Product(s): Medical infrared thermometer

规格型号: HG01, HG02, HG03  
specification and type: HG01, HG02, HG03

产品注册或备案凭证号: 湘械注准 20202070605  
Registration certificate(s): Hunan Medical Devices Registration  
Certificate No. 20202070605

生产企业: 湖南泓高电子科技有限公司  
Manufacturer: Hunan Honggao Electronic Technology Co., Ltd

生产企业住所: 湖南省益阳市南县经济开发区腾辉创业园综合产业园 5 号栋  
Address of manufacturer: Building No. 5, Tenghui business park,  
Economic Development Zone, Nanxian County, Yiyang City, Hunan  
Province, China

生产许可或备案凭证号: 湘食药监械生产许 20200041 号  
Manufacturing License(s): Hunan CFDA production permit NO. 20200041

兹证明上述产品已准许在中国生产和销售。  
This is to certify that the above products have been  
registered to be manufactured and sold in China.

证明有效日期至: 2022 年 3 月 31 日  
This certification valid until: Mar. 31, 2022

湖南省药品监督管理局  
HUNAN MEDICAL PRODUCTS ADMINISTRATION

2020 年 4 月 1 日  
Apr. 1, 2020



**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME**

**CB TEST CERTIFICATE**

Product

Medical Infrared Forehead Thermometer

Name and address of the applicant

Hunan Honggao Electronic Technology Co., Ltd.  
Block 5, Comprehensive Industrial Park, Tenghui  
Pioneer Park, Nanxian Economic Development Zone,  
Yiyang, Hunan, China

Name and address of the manufacturer

Hunan Honggao Electronic Technology Co., Ltd.  
Block 5, Comprehensive Industrial Park, Tenghui  
Pioneer Park, Nanxian Economic Development Zone,  
Yiyang, Hunan, China

Name and address of the factory

Hunan Honggao Electronic Technology Co., Ltd.  
Block 5, Comprehensive Industrial Park, Tenghui  
Pioneer Park, Nanxian Economic Development Zone,  
Yiyang, Hunan, China

*Note: When more than one factory, please report on page 2*

☐ Additional Information on page 2

Ratings and principal characteristics

DC 3,0 V (powered by 2 x AAA batteries); IP22

Trademark / Brand (if any)

**DIKANG**

Customer's Testing Facility (CTF) Stage used

-

Model / Type Ref.

HG01 V1, HG01 V2, HG02 V1, HG04, HG05, HG06

Additional information (if necessary may also be reported on page 2)

☐ Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012  
IEC 60601-1-11:2015  
IEC 60601-1-6:2010, IEC 60601-1-6:2010/AMD1:2013  
ISO 80601-2-56:2017,  
ISO 80601-2-56:2017/AMD1:2018

National Differences:

US

As shown in the Test Report Ref. No. which forms part of this Certificate

GZES200501813401, GZES200501813402,  
GZES200501813403, GZES200501813404

This CB Test Certificate is issued by the National Certification Body

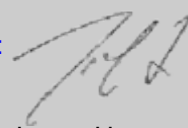
SGS Fimko Ltd.  
Takomotie 8  
FI-00380 Helsinki, Finland



**SGS Fimko Ltd.**

Date: 2020-06-05

Signature:



Jason Hoo  
Certification Manager

# Test Report

Report No.: GZES200501813405

Date: 2020-06-05

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant: Hunan Honggao Electronic Technology Co., Ltd  
Block 5, Comprehensive Industrial Park, Tenghui Pioneer Park, Nanxian  
Economic Development Zone, Yiyang, Hunan, China

Manufacturer: Same as applicant

Factory: Same as applicant

Testing Laboratory: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch  
198 Kezhu Road, Science City, Economic & Technology Development Area,  
Guangzhou, Guangdong, China

The standards: ASTM E 1965-98 (Reapproved 2009)

Test item description: Medical Infrared Forehead Thermometer

Model/Type reference: HG01 V1, HG01 V2, HG02 V1, HG04, HG05, HG06

Ratings: DC 3,0 V (powered by 2 x AAA batteries); IP22

Test result: In the opinion of SGS – CSTC the presented appliance was found to be in **compliance** with the test specification as indicated in the details on the following pages.

Remark: None



Gary Guo  
Project Reviewer

George Gu  
Project Engineer

Medical Electrical Equipment Laboratory

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN\\_Doccheck@sgs.com](mailto:EN_Doccheck@sgs.com)  
No.198 Kezhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



## Summary of testing:

Tests according to the following standard were carried out:

### ASTM E 1965-98 (Reapproved 2009)

The submitted sample fulfilled the requirements of specified standard except the following clauses were not evaluated in this test report according to applicant's requirement:

Clause 5.5 Special Requirements about clinical Accuracy, clause 6.2 Clinical Accuracy Tests and clause 7.4 Accuracy determination;

Clause 5.2.2 Displayed Temperature Range;

Clause 5.6.4 Storage Conditions and clause 6.1.6 Storage Test;

Clause 6.5 Electrostatic Discharge Tests;

Clause 7.2.1.3 Body site(s) used as a reference;

Clause 5.9.1 Housing Materials.

Model HG01 V1, HG01 V2 and HG02 V1 were subjected to full tests.

The remaining models were subjected to construction check only

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

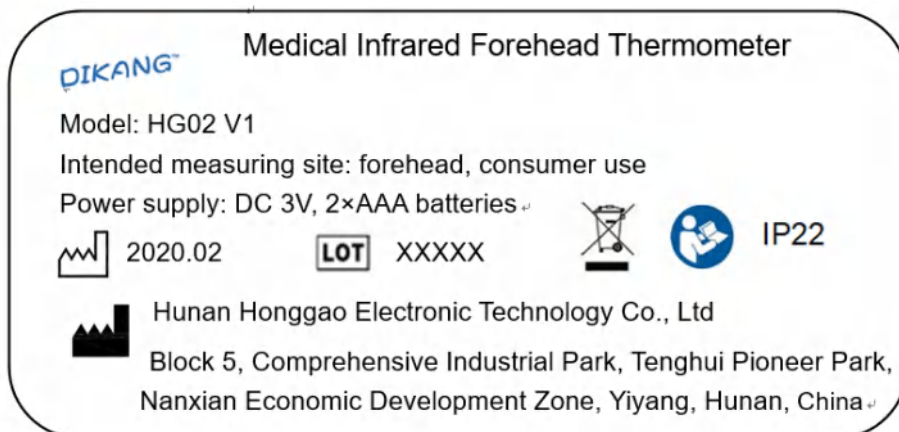
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doccheck@sgs.com](mailto:EN.Doccheck@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Copy of marking plate:

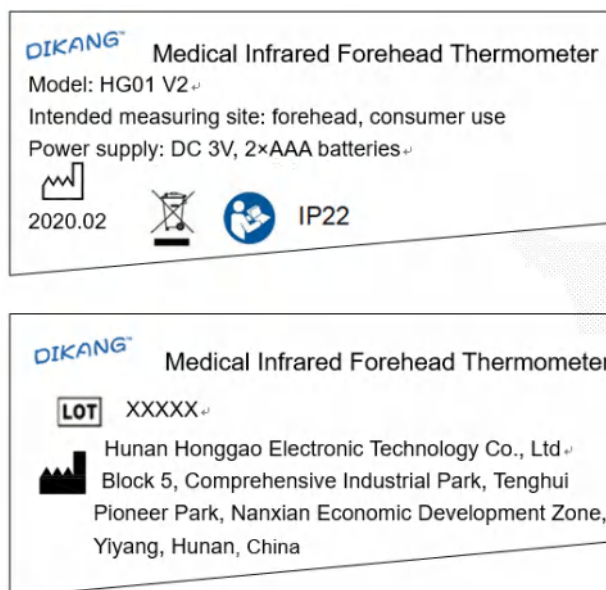
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs or NBs that own these marks.

### HG02 V1 Label



Remark: the marking of HG02 V1 and HG05 are identical except the model number

### HG01 V2 Label



Remark: the marking of HG01 V1, HG06, HG04 and HG01 V2 are identical except the model number

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

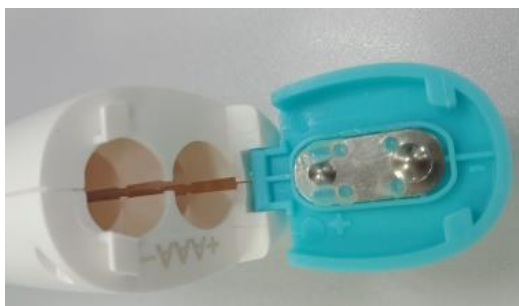
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 1442, or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)

SGS-CTI (Shanghai) Technical Service Co., Ltd. No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Battery compartment marking for HG01 V2



Battery compartment marking for HG01 V1



Battery compartment marking for HG02 V1



TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doc.china@sgs.com](mailto:SGS.Doc.china@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

# Test Report

Report No.: GZES200501813405

Date: 2020-06-05

<b>Test item particulars</b> .....	Medical Infrared Forehead Thermometer
Classification of installation and use.....	Hand-held equipment
Supply connection.....	Internally powered equipment
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	N/A
- test object does meet the requirement .....	P (Pass)
- test object does not meet the requirement.....	F (Fail)
- test object was not evaluated for the requirement .....	N/E
<b>Testing</b>	
Date of receipt of test item .....	2020-05-21
Date (s) of performance of tests .....	2020-05-21 to 2020-06-05
<b>General remarks:</b>	
<p>The test results presented in this report relate only to the object tested.          This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.</p> <p>Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.</p> <p>Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.</p> <p><b>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</b></p>	

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.196 Kexu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路196号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



## General product information:

Infrared thermometer is intended to measure forehead temperature at home and in public. The thermometer can be used for infants, children and adults.  
It has two measurement modes: Body mode and object mode, Body mode is an adjusted mode and object mode is direct mode.  
Object mode is not intended for clinical use, which was not evaluated in this report.  
Measuring site: forehead.  
Reference body site: axilla.  
Infrared thermometer is non-contact thermometer, it has no applied part.  
The IP degree of enclosure is IP22.  
The measuring rated output range is from 32,0 °C to 43,0 °C.  
Operating ambient temperature of this product is:  
Temperature: +15 °C to +40 °C  
Relative Humidity: ≤ 95%  
Atmospheric pressure: 70 kPa -106 kPa  
According to the declaration of applicant and construction check,  
HG01 V2 and HG04 are identical except for model name;  
HG02 V1 and HG05 are identical except for model name;  
HG01 V1 and HG06 are identical except for model name  
HG01 V2, HG01 V1 and HG02 V1 are identical in critical components, with differences being that the electric circuit, PCB layout, construction, shape of enclosure, control button and LCD displayer.

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doc.china@sgs.com](mailto:EN.Doc.china@sgs.com)  
SGS-CAA (Guangzhou) Technical Service Co., Ltd.  
No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
Guangzhou Branch of SGS-CAA Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
<b>4</b>	<b>Classification</b>		<b>P</b>
4.1	IR thermometers may be classified into two types: "ear canal IR thermometers" and "skin IR thermometers."	skin IR thermometers	P
4.1.1	The ear canal IR thermometer is intended for assessing the internal temperature of a subject		N/A
4.1.2	The skin IR thermometer is intended for assessing the outer surface temperature of a subject		P
<b>5</b>	<b>Requirement</b>		<b>P</b>
5.1	The following requirements shall apply to any IR thermometer that is labeled to meet these specifications		P
5.2	Displayed Temperature Range:		P
5.2.1	In any display mode, an ear canal IR thermometer shall display a subject's temperature over a minimum range of 34.4 to 42.2 °C (94.0 to 108.0 °F)		N/A
5.2.2	A skin IR thermometer shall display a subject's temperature over a minimum range of 22 to 40.0 °C (71.6 to 104.0 °F)	Only for forehead with the range: 32,0 °C to 43,0 °C	N/E
5.3	Maximum Permissible Laboratory Error (for an Ear Canal IR Thermometer):		N/A
5.3.1	Within the manufacturer's specified operating ambient conditions (see 5.6), laboratory error $\delta$ as measured according to 6.1.4 shall be no greater than values specified below:	(see clause 6.1.4 and appended table 5.3.1)	N/A
5.3.1.1	For blackbody temperature range from 36 to 39 °C (96.8 to 102.2 °F) 0.2 °C (0.4 °F)		N/A
5.3.1.2	For blackbody temperatures less than 36 °C (96.8 °F) or greater than 39 °C (102.2 °F) 0.3 °C (0.5 °F).		N/A
5.4	Maximum Permissible Laboratory Error (for a Skin IR Thermometer):		P
5.4.1	Within the manufacturer's specified operating ambient conditions (see 5.6) over the display temperature range as specified in 5.2.2, laboratory error $\delta$ as measured according to 6.1.5 shall be no greater than 0.3 °C (0.5 °F)	(see clause 6.1.5 and appended table 5.4.1)	P

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doc.china@sgs.com](mailto:EN.Doc.china@sgs.com)

SGS-CMAA (China) Technical Co., Ltd.  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
5.5	Special Requirements:		N/E
5.5.1	Clinical Accuracy:		N/E
5.5.1.1	The clinical accuracy requirement is applicable only to an ear canal IR thermometer system and the corresponding age groups of subjects for which such thermometer is labelled or implied to be used	Clinical Accuracy was not evaluated in this report.	N/E
5.5.1.2	Clinical accuracy shall be determined separately for each of the following conditions: for each device model, for each adjusted display mode, and for every age group of febrile and afebrile subjects on which the IR thermometer is intended to be used.		N/E
5.5.1.3	Any disclosure of clinical accuracy claims shall be accompanied by disclosure of methodology and procedures. Such information shall be made available on request		N/E
5.5.1.4	Clinical accuracy should be determined in form of two characteristics—clinical bias with stated uncertainty and clinical repeatability, as defined in 3.2.8		N/E
5.6	Ambient Conditions:		P
5.6.1	Operating Temperature Range:		P
5.6.1.1	The system shall meet laboratory error requirements as specified in 5.3 or 5.4, or both, when operating in an environment from 16 to 40 °C (60.8 to 104.0 °F).	15°C to 40°C (50 °F to 104 °F)	P
5.6.1.2	If the operating temperature range is narrower than specified in 5.6.1.1, the device shall be clearly labeled with a cautionary statement of the maximum or minimum operating temperatures, or both		N/A
5.6.1.3	Under no circumstances may the upper limit of operating temperature range be less than 35 °C (95 °F).	The upper limit: 40°C (104 °F)	P
5.6.2	Operating Humidity Range—The relative humidity range for the operating temperature range as specified in 5.6.1 is up to 95 %, noncondensing		P
5.6.3	Shock		P

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doccheck@sgs.com](mailto:EN.Doccheck@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
5.6.3.1	The instrument with batteries installed (if applicable) without a carrying (storage) casing shall withstand drops with controlled orientation of the device without degradation of accuracy as specified in 5.3 or 5.4, or both, for a blackbody temperature of or near 37 °C (98.6 °F), when tested according to 6.3	(see clause 6.3 and appended table 5.6.3)	P
5.6.3.2	If an IR thermometer does not meet requirement of 5.6.3.1, a means of detecting and informing the user of its inoperable state, after being subjected to shock, shall be provided	Can meet requirement of 5.6.3.1	N/A
5.6.4	Storage Conditions—The instrument shall meet the accuracy requirements of 5.3 or 5.4, or both, after having been stored or transported, or both, at any point in an environment of – 20 to + 50 °C (– 4 to + 122 °F) and relative humidity up to 95 %, noncondensing, for a period of one month. The test procedure is specified in 6.1.6	Not evaluated in this report	N/E
5.6.5	Cleaning and Disinfection—Instrument performance shall not be degraded by using the manufacturer's recommended procedures for cleaning and disinfection provided in the instruction manual. Such procedures are part of the required documentation in 7.2.2	Cleaning	P
5.6.6	Electromagnetic Immunity—An IR thermometer that is intended for professional use shall meet the accuracy requirements of 5.3 or 5.4, or both, for temperature ranges of 6.3.2, during and after exposure to electromagnetic interference	Non-professional use	N/A
5.6.7	Electrostatic Discharge—An IR thermometer shall meet the accuracy requirements of 5.3 and 5.4, or both, for temperature ranges of 6.3.2, after 5 s from being subjected to electrostatic discharge	(see appended table 5.6.7)	P
5.7	Low Power Supply Operation—The instrument shall operate at power supply voltage lower by no less than 0.1 V than that required for indication of low power supply sign as specified by 5.8.3. The test of operation is defined in 6.3.2 and 6.3.3	(see appended table 5.7)	P

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Document@sgs.com](mailto:SGS.Document@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
5.8	Display and Human Interface:		P
5.8.1	Resolution—The resolution of a display shall be 0.1 °C (0.1 °F).	0,1 °C/0,1 °F	P
5.8.2	Modes:		P
5.8.2.1	An IR thermometer shall indicate in what mode the instrument is set	On the LCD display	P
5.8.2.2	Unadjusted Mode—The unadjusted mode shall be accessible by the user either by setting the instrument into that mode directly or by a conversion technique from adjusted mode.	Setting the instrument into that mode directly	P
5.8.2.3	Adjusted mode sets an IR thermometer to represent a reference body site, such as core, oral, rectal, etc.	Axilla	P
5.8.3	Warning Signs—The instrument shall have means to inform the operator when the following are outside the operating ranges specified by the manufacturer: power supply, subject temperature, and ambient temperature		P
5.9	Construction:		N/A
5.9.1	Housing Materials—All materials that may come in contact with the operator or a subject shall be nontoxic.	Not evaluated in this report	N/E
5.9.2	Probe Covers:		P
5.9.2.1	To provide a sanitary barrier between a subject and the probe, a probe cover that comes in contact with a subject, if such a probe cover is required by the manufacturer, shall maintain its physical integrity while being placed on the probe and during temperature measurement		N/A
5.9.2.2	A probe and a probe cover of the system shall have shape and dimensions that prevent injury to a subject of any age.		N/A
5.9.2.3	A probe cover shall not increase laboratory errors whose limits are set in 5.3.1		N/A
5.10	Labeling and Marking (Instruments and Accessories):		P
5.10.1	Thermometer and Accessories:		P
5.10.1.1	A thermometer shall clearly indicate the units of its temperature scale.	On the LCD display	P

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doccheck@sgs.com](mailto:EN.Doccheck@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
5.10.1.2	An IR thermometer housing shall be clearly marked with:	See "Copy of marking plate"	P
	the trade name or type of the device, or both	Trade name	P
	model designation	See "Copy of marking plate"	P
	name of the manufacturer or distributor	See "Copy of marking plate"	P
	and lot number or serial number	See "Copy of marking plate"	P
5.10.1.3	An IR thermometer intended for professional use shall be conspicuously labeled with indication of the unadjusted or adjusted mode(s), or both, that correspond to the temperature value(s) capable of being displayed by the instrument	Consumer use	N/A
	Such labeling is optional for IR thermometers that display only one mode and are intended for non-professional use		N/A
	However, as required in 7.2.1.3, the instruction manual for both professional and non-professional use IR thermometers shall specify the body site(s) (that is, oral, rectal, core) used to reference the adjusted temperature value(s) displayed	Not evaluated in this report	N/E
5.10.2	Probe Covers Package:		N/A
5.10.2.1	The package shall state the name and type of the enclosed products, name of the manufacturer or distributor, lot number or serial number, and expiration date (if the probe covers have limited shelf life).		N/A
5.10.2.2	The thermometer model(s) for which the covers are intended for use shall be specified on the probe cover package.		N/A
5.10.2.3	The package shall state whether the probe cover is intended for single use or multiple use.		N/A
5.10.2.4	Any probe cover handling, application, storage, or cleaning procedures which impact the ability of an IR thermometer to meet the requirements for maximum permissible laboratory error specified in 5.3 shall be stated	Not impact the ability	N/A

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



ASTM E 1965-98 (2009)																	
Clause	Requirement	Remarks	Verdict														
6	Test Methods		P														
6.1.4	Ear Canal Type IR Thermometer		N/A														
6.1.4.1	Tests shall be repeated for three blackbody temperatures, $t_{BB}$ set within $\pm 0.5\text{ }^{\circ}\text{C}$ ( $\pm 1\text{ }^{\circ}\text{F}$ ) from the following temperatures: 35, 37, and $41\text{ }^{\circ}\text{C}$ , (95, 98.6, and $105.8\text{ }^{\circ}\text{F}$ ). At each blackbody temperature, the tests shall be repeated under the ambient conditions stated in Table 1.	All models	N/A														
	<table><tr><th colspan="2">TABLE 1 Conditions of Ambient Temperature and Humidity for Testing an IR Thermometer with a Blackbody for Each of Three Blackbody Settings</th></tr><tr><th>Operating Temperature</th><th>Relative Humidity (%)</th></tr><tr><td>16 to 18 <math>^{\circ}\text{C}</math> (60 to 65 <math>^{\circ}\text{F}</math>)*</td><td>less than 50</td></tr><tr><td>16 to 18 <math>^{\circ}\text{C}</math> (60 to 65 <math>^{\circ}\text{F}</math>)*</td><td>90 to 95</td></tr><tr><td>24 to 26 <math>^{\circ}\text{C}</math> (75 to 80 <math>^{\circ}\text{F}</math>)</td><td>40 to 60</td></tr><tr><td>38 to 40 <math>^{\circ}\text{C}</math> (100 to 104 <math>^{\circ}\text{F}</math>)*</td><td>less than 25</td></tr><tr><td>38 to 40 <math>^{\circ}\text{C}</math> (100 to 104 <math>^{\circ}\text{F}</math>)</td><td>75 to 85</td></tr></table> <p>Note: marked with an asterisk shall be changed for the respective limits of such specified operating temperature range</p>		TABLE 1 Conditions of Ambient Temperature and Humidity for Testing an IR Thermometer with a Blackbody for Each of Three Blackbody Settings		Operating Temperature	Relative Humidity (%)	16 to 18 $^{\circ}\text{C}$ (60 to 65 $^{\circ}\text{F}$ )*	less than 50	16 to 18 $^{\circ}\text{C}$ (60 to 65 $^{\circ}\text{F}$ )*	90 to 95	24 to 26 $^{\circ}\text{C}$ (75 to 80 $^{\circ}\text{F}$ )	40 to 60	38 to 40 $^{\circ}\text{C}$ (100 to 104 $^{\circ}\text{F}$ )*	less than 25	38 to 40 $^{\circ}\text{C}$ (100 to 104 $^{\circ}\text{F}$ )	75 to 85	N/A
TABLE 1 Conditions of Ambient Temperature and Humidity for Testing an IR Thermometer with a Blackbody for Each of Three Blackbody Settings																	
Operating Temperature	Relative Humidity (%)																
16 to 18 $^{\circ}\text{C}$ (60 to 65 $^{\circ}\text{F}$ )*	less than 50																
16 to 18 $^{\circ}\text{C}$ (60 to 65 $^{\circ}\text{F}$ )*	90 to 95																
24 to 26 $^{\circ}\text{C}$ (75 to 80 $^{\circ}\text{F}$ )	40 to 60																
38 to 40 $^{\circ}\text{C}$ (100 to 104 $^{\circ}\text{F}$ )*	less than 25																
38 to 40 $^{\circ}\text{C}$ (100 to 104 $^{\circ}\text{F}$ )	75 to 85																
6.1.4.2	Prior to the measurements, the IR thermometer shall be stabilized at given conditions of ambient temperature and humidity for a minimum of 30 min or longer if so specified by the manufacturer		N/A														
6.1.4.3	At each combination of operating temperature and humidity in Table 1, at least six measurements shall be taken for each blackbody temperature, $t_{BB}$ . The number of readings shall be the same for all combinations.		N/A														
	A new disposable probe cover (if applicable) must be used for each test reading. The rate and method of temperature taking shall be in compliance with the manufacturer's recommendations.	No probe cover used	N/A														

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS-CEE (Guangzhou) Technical Services Co., Ltd.  
Guangzhou CEE Technical Services Laboratory

No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
6.1.4.4	<p>The requirements of 5.3 demand that no individual error <math>\delta_j</math> exceeds the specified limits for laboratory error. The individual measurement error is:</p> $\delta_j = t_j - t_{BB} \quad (1)$ <p> <math>t_j</math> = displayed or calculated value of unadjusted temperature,  <math>t_{BB}</math> = true temperature of the blackbody,  <math>j</math> = sequential number of a reading,  <math>  </math> = signifies taking an absolute value. </p>		N/A
6.1.4.5	In each mode, three data sets shall be formed. Each data set is comprised of values $\delta_j$ obtained at the same blackbody temperature setting by pooling together values for all combinations of operating temperature and humidities obtained at that blackbody temperature. The largest $\delta_j$ is a measure of the laboratory error of a system.		N/A
6.1.4.6	The correction method to arrive at unadjusted temperature $t_j$ from readings in adjusted mode(s) shall be used according to the manufacturer's recommendation. Such recommendations shall be available from the manufacturer on request and provided in the service and repair manual, if any (see 7.3).		N/A
6.1.4.7	To comply with this standard, the greatest calculated error $\delta_j$ from all data sets measured and calculated for all display modes shall conform with requirements set forth in 5.3.	(see appended table 5.3.1)	N/A
6.1.5	Skin Type IR Thermometer:		P
6.1.5.1	Testing is as specified in 6.1.4 except that blackbody temperatures shall be set within $\pm 1^\circ\text{C}$ ( $\pm 2^\circ\text{F}$ ) from the following temperatures: 23, 30, and 38 $^\circ\text{C}$ (73, 86, and 100 $^\circ\text{F}$ )		P
6.1.5.2	The greatest calculated error $\delta_j$ from all data sets shall conform with requirements set forth in 5.4.		P

TRF No.: ASTM E 1965-98(Reapproved 2009)b

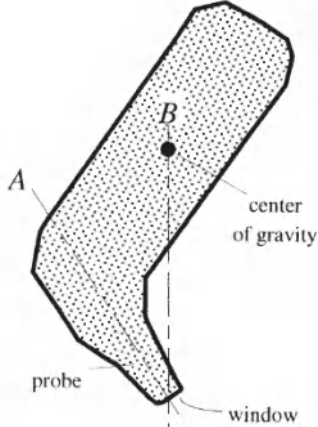


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)

SGS-CTI (Shanghai) Technical Service Co., Ltd.  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
6.1.6	Storage Test—To test compliance with storage conditions, an IR thermometer shall be maintained in an environmental chamber at temperature $-20^{\circ}\text{C}$ ( $-4^{\circ}\text{F}$ ), relative humidity below 50 %, for a period of 30 days and at $50^{\circ}\text{C}$ ( $122^{\circ}\text{F}$ ), relative humidity no less than 75 % noncondensing, for a period of 30 days. After each exposure the IR thermometer shall be tested according to 6.3.2 and 6.3.3	Not evaluated in this report	N/E
6.2	Clinical Accuracy Tests	Not evaluated in this report	N/E
6.3	Shock Test:		P
6.3.1	To test the ability of an IR thermometer to comply with 5.6.3, it shall be subjected to a fall from a height of 1 m (39 in.) onto a 50 mm (2 in.) thick hardwood board (hardwood of density higher than 700 kg/m <sup>3</sup> ) that lies flat on a rigid base (concrete block). The test shall be performed with a controlled orientation of the device once for each of two axes (see Fig. 1) where the IR thermometer probe faces down. Axis A is defined as an optical axis of the probe. Axis B passes through the IR thermometer center of gravity and the point where the window of the probe crosses axis A		P
			P

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

SGS-CA (Guangzhou) Technical Services Co., Ltd.  
Guangzhou (China) SGS Laboratory

No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
6.3.2	The IR thermometer's operation shall be tested by measuring the temperature of a blackbody that is set within $\pm 0.5^{\circ}\text{C}$ ( $\pm 1^{\circ}\text{F}$ ) from $37^{\circ}\text{C}$ ( $98.6^{\circ}\text{F}$ ), at ambient temperature in the range from $20$ to $26^{\circ}\text{C}$ ( $68$ to $79^{\circ}\text{F}$ ) and relative humidity in the range from $40$ to $70\%$ . A total of at least five measurements shall be performed by using a new disposable probe cover (if applicable) for every measurement. The IR thermometer shall be set in an unadjusted mode as specified in 5.8.2.2.		P
6.3.3	The unadjusted temperature value shall be subtracted from the blackbody setting. The absolute value of the largest error shall be no greater than the error limit set forth in 5.3 (or 5.4, whichever is applicable) for the blackbody temperature range from $36$ to $39^{\circ}\text{C}$ ( $96.8$ to $102.2^{\circ}\text{F}$ )	(see appended table 5.6.3)	P
6.4	Electromagnetic Susceptibility Test	Non-professional use	N/A
6.5	Electrostatic Discharge Tests	Not evaluated in this report	N/E
<b>7</b>	<b>Documentation</b>		<b>P</b>
7.1	Identification:		P
7.1.1	In order that purchasers may identify products conforming to requirements of this specification, producers and distributors may include a statement of compliance in conjunction with their name and address on product labels or associated printed materials, or both, such as invoices, sales literature, and the like. The following statement is suggested: "This infrared thermometer meets requirements established in ASTM Standard (E 1965-98). Full responsibility for the conformance of this product to the standard is assumed by (name and address of producer or distributor)." In the event one or more provisions of this standard are not met, a cautionary statement shall be included.	Instructions for use Version: 1.0	P
7.1.2	The IR thermometer shall be identified as intended for professional or consumer use, or both, as applicable	Only consumer use	P
7.2	Instruction Manual		P

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doccheck@sgs.com](mailto:EN.Doccheck@sgs.com)

SGS-CEE (Guangzhou) Technical Service Co., Ltd.  
No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
Guangzhou (Guangdong) SGS Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
7.2.1	Specifications—An instruction manual shall be provided and contain the system specifications, including but not limited to the following:		P
7.2.1.1	Displayed temperature range		P
7.2.1.2	Maximum laboratory error		P
7.2.1.3	Body site(s) used as a reference for adjusting the displayed temperature value		P
7.2.1.4	Applicable subject categories for each display mode		P
7.2.1.5	Required period of recalibration or reverification, if applicable		N/A
7.2.1.6	Environmental characteristics (operating and storage ranges for temperature and humidity)		P
7.2.1.7	Statement informing that clinical accuracy characteristics and procedures are available from the manufacturer on request		P
7.2.2	Detailed instructions—The instruction manual shall contain adequate instructions for use with sufficient detail for training in the operation, application, care, and biological and physical cleaning of the instrument and accessories. The instruction manual shall include warnings if performance of the instrument may be adversely affected should one or more of the following occur:		P
7.2.2.1	Operation outside of the manufacturer specified subject temperature range		P
7.2.2.2	Operation outside of the manufacturer specified operating temperature and humidity ranges		P
7.2.2.3	Storage outside of the manufacturer specified ambient temperature and humidity ranges		P
7.2.2.4	Mechanical shock		P
7.2.2.5	Manufacturer defined soiled or damaged infrared optical components.		P
7.2.2.6	Absent, defective, or soiled probe cover (if applicable)		P
7.2.2.7	Use of unspecified probe covers		N/A

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
7.2.3	Blackbody—The instruction manual shall indicate the type and availability of a blackbody recommended for verifying laboratory or clinical accuracy, or both, if only such type is required by the manufacturer as addressed in 6.1.3.3		N/A
7.2.4	The instruction manual shall specify whether the probe cover is intended for single use or multiple use. If multiple use is allowed, cleaning instructions and criteria for determining when a probe cover should be discarded shall be specified. Cleaning instructions shall be adequate to prevent cross-contamination between patients.		N/A
7.2.5	The instruction manual shall inform the user of differences in the accuracy of measurements obtained with IR thermometers versus contact thermometers (that is, mercury-in-glass and electronic thermometers). Such differences shall include, whenever applicable, a description of the anticipated error sources associated with disposable or reusable probe covers and sleeves, operators' technique, anatomical variations, earwax buildups, subject cooperation, etc. In addition, this section of the instruction manual that explains differences in the accuracy of measurements obtained with IR thermometers versus contact thermometers shall conspicuously include the following statement: "ASTM laboratory accuracy requirements in the display range of 37 to 39 °C (98 to 102 °F) for IR thermometers is $\pm 0.2$ °C ( $\pm 0.4$ °F), whereas for mercury-in-glass and electronic thermometers, the requirement per ASTM Standards E 667-86 and E 1112-86 is $\pm 0.1$ °C ( $\pm 0.2$ °F)."		P
7.3	Service and Repair Manual:		N/A
7.3.1	A detailed service manual shall be made available if user service or repair is permitted by the manufacturer	Not user service or repair is permitted by manufacturer	N/A
7.3.2	A service manual shall disclose values of instrumentation or combined site offsets, or both		N/A

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Docs@sgs.com](mailto:SGS.Docs@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



ASTM E 1965-98 (2009)			
Clause	Requirement	Remarks	Verdict
7.3.3	A service manual shall provide a method of arriving to unadjusted readings from temperatures displayed in an adjusted mode		N/A
7.4	Accuracy Determination—A manufacturer shall make available upon request specific instructions for tests to determine the laboratory error, clinical bias and clinical repeatability of an IR thermometer.	Clinical Accuracy was not evaluated in this test report	N/E
	When describing how clinical tests are performed, the manufacturer shall disclose the profile of subject groups tested, including age and febrile status. A detailed procedure for taking reference temperatures also shall be disclosed		N/E

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Document@sgs.com](mailto:SGS.Document@sgs.com)

No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Test data table:

5.3.1	Laboratory accuracy test (Ear Canal Type IR Thermometer)						N/A
Operating Temperature Relative Humidity (%)				16 to 18°C (60 to 65°F), less than 50			
Measur ement No.	t <sub>BB</sub> set: 23,0°C/73,4 °F		t <sub>BB</sub> set: 30,0°C/86,0 °F		t <sub>BB</sub> set: 38,0°C/100,5°F		Verdict / remark
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,2°C/0,4°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	
1							
2							
3							
4							
5							
6							
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode) Remark:							

5.3.1	Laboratory accuracy test (Ear Canal Type IR Thermometer)						N/A
Operating Temperature Relative Humidity (%)				16 to 18°C (60 to 65°F), 90-95			
Measur ement No.	t <sub>BB</sub> set: 23,0°C/73,4 °F		t <sub>BB</sub> set: 30,0°C/86,0 °F		t <sub>BB</sub> set: 38,0°C/100,5°F		Verdict / remark
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,2°C/0,4°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	
1							
2							
3							
4							
5							
6							
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode)							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 1642; or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)

SGS-CTI (Shanghai) Technical Service Co., Ltd.  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82075058 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Remark:

5.3.1	Laboratory accuracy test (Ear Canal Type IR Thermometer)						N/A
Operating Temperature Relative Humidity (%)				24 to 26°C (75 to 80°F), 40-60			
Measur ement No.	t <sub>BB</sub> set: 23,0°C/73,4 °F		t <sub>BB</sub> set: 30,0°C/86,0 °F		t <sub>BB</sub> set: 38,0°C/100,5°F		Verdict / remark
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,2°C/0,4°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	
1							
2							
3							
4							
5							
6							
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode)							
Remark:							

5.3.1	Laboratory accuracy test (Ear Canal Type IR Thermometer)						N/A
Operating Temperature Relative Humidity (%)				38 to 40°C (100,4 to 104°F), less than 25			
Measur ement No.	t <sub>BB</sub> set: 23,0°C/73,4 °F		t <sub>BB</sub> set: 30,0°C/86,0 °F		t <sub>BB</sub> set: 38,0°C/100,5°F		Verdict / remark
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,2°C/0,4°F	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,3°C/0,5°F	
1							
2							
3							
4							
5							
6							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Document@sgs.com](mailto:SGS.Document@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82075058 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



Supplementary information:

 $t_{BB}$ : Temperature of blackbody $t_j$ : Displayed value of unadjusted temperature (test mode)

Remark:

5.3.1	Laboratory accuracy test (Ear Canal Type IR Thermometer)						N/A
Operating Temperature Relative Humidity (%)					38 to 40°C(100,4 to 104°F), 75-85		
Measur ement No.	$t_{BB}$ set: 23,0°C/73,4 °F		$t_{BB}$ set: 30,0°C/86,0 °F		$t_{BB}$ set: 38,0°C/100,5°F		Verdict / remark
	$t_j$ °C/ °F	Error ( $ t_j - t_{BB} $ ) Limit 0,3°C/0,5°F	$t_j$ °C/ °F	Error ( $ t_j - t_{BB} $ ) Limit 0,2°C/0,4°F	$t_j$ °C/ °F	Error ( $ t_j - t_{BB} $ ) Limit 0,3°C/0,5°F	
1							
2							
3							
4							
5							
6							
Supplementary information:							
$t_{BB}$ : Temperature of blackbody							
$t_j$ : Displayed value of unadjusted temperature (test mode)							
Remark:							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doc.china@sgs.com](mailto:EN.Doc.china@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

5.4.1	Laboratory accuracy test (Skin Type IR Thermometer)						P
Operating Temperature Relative Humidity (%)					16 to 18°C, less than 50		
Measur ement No.	t <sub>BB</sub> set: 23,0°C		t <sub>BB</sub> set: 30,0°C		t <sub>BB</sub> set: 38,0°C		Verdict / remark
	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	
HG01 V1							
1	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
2	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
3	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
4	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
5	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
6	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
HG01 V2							
1	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
2	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
3	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
4	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
5	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
6	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
HG02 V1							
1	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
2	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
3	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
4	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
5	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
6	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (surface temp mode) Remark:							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic and Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

5.4.1	Laboratory accuracy test (Skin Type IR Thermometer)						P
Operating Temperature Relative Humidity (%)					16 to 18°C, 90 to 95		
Measur ement No.	t <sub>BB</sub> set: 23,0°C		t <sub>BB</sub> set: 30,0°C		t <sub>BB</sub> set: 38,0°C		Verdict / remark
	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	
HG01 V1							
1	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
2	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
3	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
4	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
5	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
6	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
HG01 V2							
1	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
2	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
3	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
4	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
5	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
6	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
HG02 V1							
1	22,9	-0,1	30,0	0	38,1	+0,1	P
2	22,9	-0,1	30,0	0	38,1	+0,1	P
3	22,9	-0,1	30,0	0	38,1	+0,1	P
4	22,9	-0,1	30,0	0	38,1	+0,1	P
5	22,9	-0,1	30,0	0	38,1	+0,1	P
6	22,9	-0,1	30,0	0	38,1	+0,1	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (surface temp mode) Remark:							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442; or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)

SGS-CEC Inspection & Testing Services Co., Ltd.  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



5.4.1	Laboratory accuracy test (Skin Type IR Thermometer)						P
Operating Temperature Relative Humidity (%)					24 to 26 °C, 40 to 60		
Measur ement No.	t <sub>BB</sub> set: 23,0°C		t <sub>BB</sub> set: 30,0°C		t <sub>BB</sub> set: 38,0°C		Verdict / remark
	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	
HG01 V1							
1	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
2	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
3	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
4	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
5	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
6	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
HG01 V2							
1	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
2	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
3	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
4	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
5	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
6	23,1	+0,1	30,1	+0,1	38,1	+0,1	P
HG02 V1							
1	22,9	-0,1	30,0	0	38,0	0	P
2	22,9	-0,1	30,0	0	38,0	0	P
3	22,9	-0,1	30,0	0	38,0	0	P
4	22,9	-0,1	30,0	0	38,0	0	P
5	22,9	-0,1	30,0	0	38,0	0	P
6	22,9	-0,1	30,0	0	38,0	0	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (surface temp mode) Remark:							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442; or email: [SGS.Doccheck@sgs.com](mailto:SGS.Doccheck@sgs.com)

SGS-CEC Inspection & Testing Services Co., Ltd.  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

5.4.1	Laboratory accuracy test (Skin Type IR Thermometer)						P
Operating Temperature Relative Humidity (%)					38 to 40 °C, less than 25		
Measur ement No.	t <sub>BB</sub> set: 23,0°C		t <sub>BB</sub> set: 30,0°C		t <sub>BB</sub> set: 38,0°C		Verdict / remark
	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	
HG01 V1							
1	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
2	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
3	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
4	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
5	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
6	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
HG01 V2							
1	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
2	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
3	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
4	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
5	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
6	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
HG02 V1							
1	22,9	-0,1	30,0	0	38,0	0	P
2	22,9	-0,1	30,0	0	38,0	0	P
3	22,9	-0,1	30,0	0	38,0	0	P
4	22,9	-0,1	30,0	0	38,0	0	P
5	22,9	-0,1	30,0	0	38,0	0	P
6	22,9	-0,1	30,0	0	38,0	0	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (surface temp mode) Remark:							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doc.china@sgs.com](mailto:SGS.Doc.china@sgs.com)

No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

5.4.1	Laboratory accuracy test (Skin Type IR Thermometer)						P
Operating Temperature Relative Humidity (%)					38 to 40 °C, 75 to 85		
Measur ement No.	t <sub>BB</sub> set: 23,0°C		t <sub>BB</sub> set: 30,0°C		t <sub>BB</sub> set: 38,0°C		Verdict / remark
	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	t <sub>j</sub>	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,3°C	
HG01 V1							
1	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
2	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
3	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
4	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
5	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
6	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
HG01 V2							
1	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
2	23,2	+0,2	30,1	+0,1	38,2	+0,2	P
3	23,2	+0,2	30,1	+0,1	38,2	+0,2	P
4	23,2	+0,2	30,2	+0,2	38,2	+0,2	P
5	23,2	+0,2	30,1	+0,1	38,2	+0,2	P
6	23,2	+0,2	30,1	+0,1	38,2	+0,2	P
HG02 V1							
1	22,9	-0,1	30,0	0	38,0	0	P
2	22,9	-0,1	30,0	0	38,0	0	P
3	22,9	-0,1	30,0	0	38,0	0	P
4	22,9	-0,1	30,0	0	38,0	0	P
5	22,9	-0,1	30,0	0	38,0	0	P
6	22,9	-0,1	30,0	0	38,0	0	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (surface temp mode) Remark:							

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doc.china@sgs.com](mailto:SGS.Doc.china@sgs.com)

SGS-CTI (Shanghai) Technical Service Co., Ltd.  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



5.6.3	Shock Test		P
Operating Temperature Relative Humidity (%)		20 to 26 °C (68 to 78,8°F), 40 to 70	
Measur ement No.	t <sub>BB</sub> set: 37,0°C		Verdict / remark
	t <sub>j</sub> °C	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,2°C	
HG01 V1			
1	37,1	+0,1	P
2	37,1	+0,1	P
3	37,1	+0,1	P
4	37,1	+0,1	P
5	37,1	+0,1	P
HG01 V2			
1	37,1	+0,1	P
2	37,1	+0,1	P
3	37,1	+0,1	P
4	37,1	+0,1	P
5	37,1	+0,1	P
HG02 V1			
1	37,0	0	P
2	36,9	-0,1	P
3	36,9	-0,1	P
4	37,0	0	P
5	37,0	0	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode) Remark:			

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Document@sgs.com](mailto:SGS.Document@sgs.com)

No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

5.6.4	Storage Test	N/E
Operating Temperature Relative Humidity (%)		20 to 26 °C(68 to 78,8°F), 40 to 70
30d storage in chamber at temperature -20 °C (-4 °F), relative humidity below 50 %		
Measur ement No.	t <sub>BB</sub> set: 37,0°C/98,6 °F	
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,2°C/0,4°F
1		
30d storage in chamber at temperature 50 °C (122 °F), relative humidity no less than 75 %		
Measur ement No.	t <sub>BB</sub> set: 37,0°C/98,6 °F	
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,2°C/0,4°F
1		
Supplementary information: Not evaluated in this report t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode) Remark:		

5.6.6	Electromagnetic Immunity Tests	N/A
Operating Temperature Relative Humidity (%)		20 to 26 °C(68 to 78,8°F), 40 to 70
Measur ement No.	t <sub>BB</sub> set: 37,0°C/98,6 °F	
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> - t <sub>BB</sub>  ) Limit 0,2°C/0,4°F
1		
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode) Remark: Non-professional use		

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doc.china@sgs.com](mailto:SGS.Doc.china@sgs.com)  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

5.6.7	Electrostatic Discharge Tests		P
Operating Temperature Relative Humidity (%)		20 to 26 °C (68 to 78,8°F), 40 to 70	
Measur ement No.	t <sub>BB</sub> set: 37,0°C/98,6 °F		Verdict / remark
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,2°C/0,4°F	
HG01 V1			
1	37,1	+0,1	P
2	37,1	+0,1	P
3	37,1	+0,1	P
4	37,1	+0,1	P
5	37,1	+0,1	P
HG01 V2			
1	37,0	0	P
2	37,0	0	P
3	36,8	-0,2	P
4	36,8	-0,2	P
5	36,9	-0,1	P
HG02 V1			
1	37,0	0	P
2	36,9	-0,1	P
3	36,9	-0,1	P
4	37,0	0	P
5	37,0	0	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode)  Remark:			

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 [www.sgs.com.cn](http://www.sgs.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



5.7	Low power supply operation		P
Operating Temperature Relative Humidity (%)		20 to 26 °C (68 to 78,8°F), 40 to 70	
Measur ement No.	t <sub>BB</sub> set: 37,0°C/98,6 °F		Verdict / remark
	t <sub>j</sub> °C/ °F	Error ( t <sub>j</sub> – t <sub>BB</sub>  ) Limit 0,2°C/0,4°F	
HG01 V1			
1	36,9	-0,1	P
2	36,9	-0,1	P
3	36,9	-0,1	P
4	36,9	-0,1	P
5	36,9	-0,1	P
HG01 V2			
1	37,1	+0,1	P
2	37,1	+0,1	P
3	37,1	+0,1	P
4	37,1	+0,1	P
5	37,1	+0,1	P
HG02 V1			
1	37,0	0	P
2	36,9	-0,1	P
3	36,9	-0,1	P
4	37,0	0	P
5	37,0	0	P
Supplementary information: t <sub>BB</sub> : Temperature of blackbody t <sub>j</sub> : Displayed value of unadjusted temperature (test mode) Remark:			

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SGS.Doc.china@sgs.com](mailto:SGS.Doc.china@sgs.com)

SGS-CTI (Shanghai) Technical Service Co., Ltd.  
 No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 T (86-20) 82155555 F (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 T (86-20) 82155555 F (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

## Attachment 2: Photo Documentation

Details of: HG01 V1

Marking refer to copy of marking plate

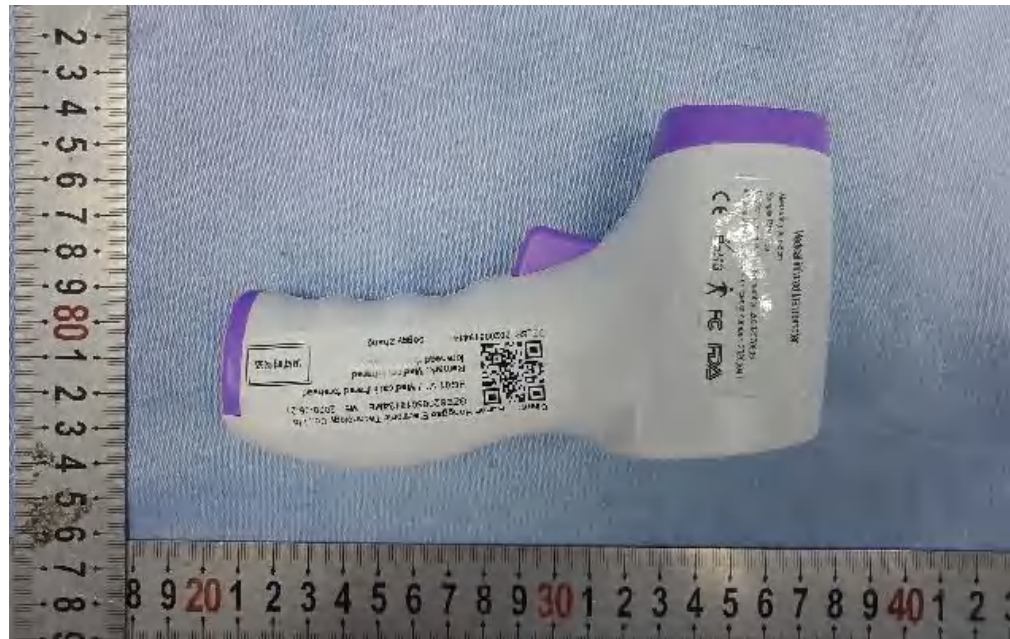
View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

Details of: HG01 V1

Marking refer to copy of marking plate

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com).

No.191 Kaitu Road, Saitech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Attachment 2: Photo Documentation

Details of: HG01 V1



Details of: HG01 V1



TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 3442, or email: [EN.Doccheck@sgs.com](mailto:EN.Doccheck@sgs.com)

No. 198 Kaitu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

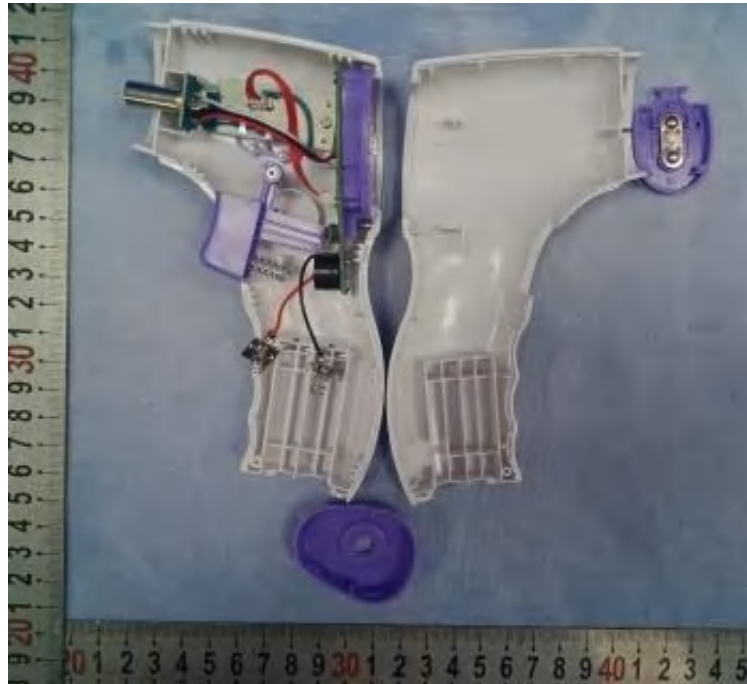
Member of the SGS Group (SGS SA)



## Attachment 2: Photo Documentation

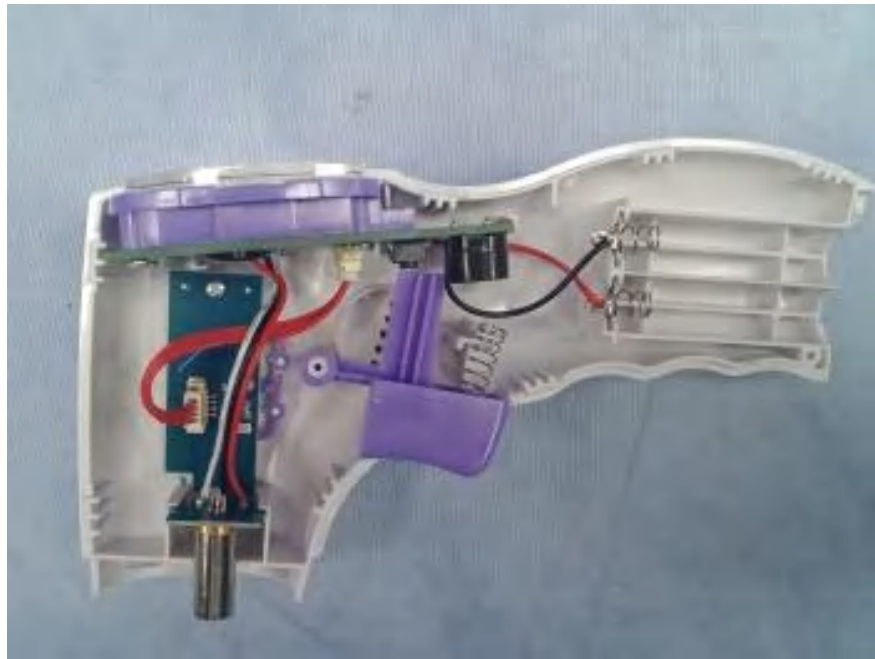
Details of: HG01 V1, Internal view

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

Details of: HG01 V1, Internal view

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 1442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

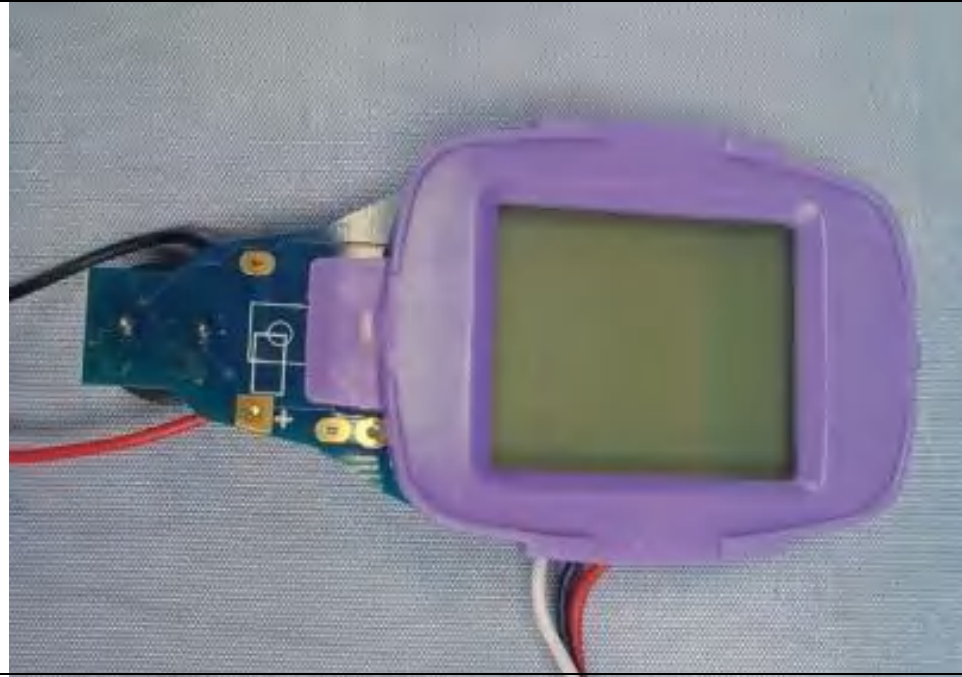
No.198 Kechu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Attachment 2: Photo Documentation

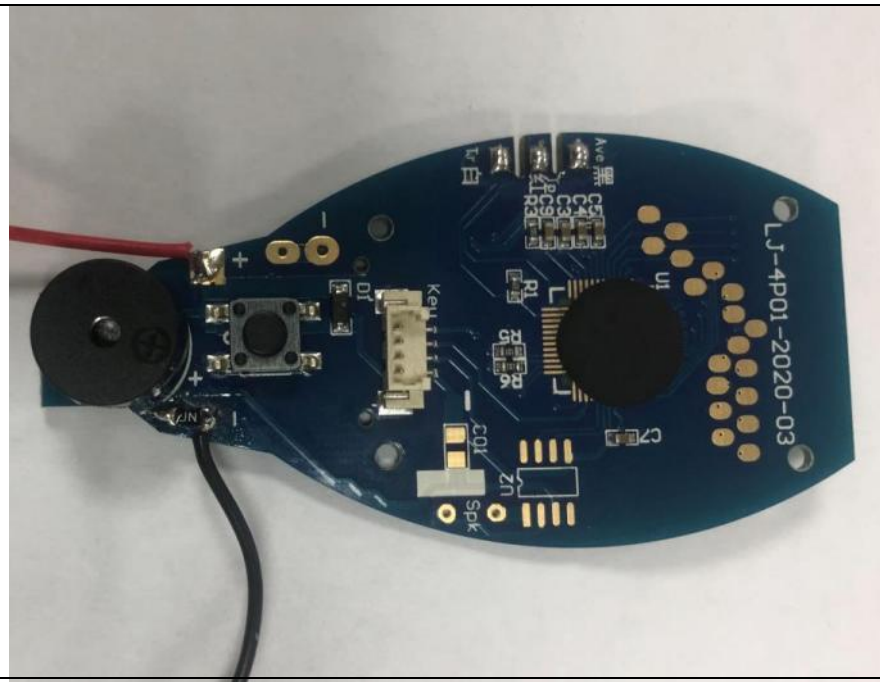
Details of: HG01 V1, LCD screen

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

Details of: HG01 V1, internal view

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 1442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

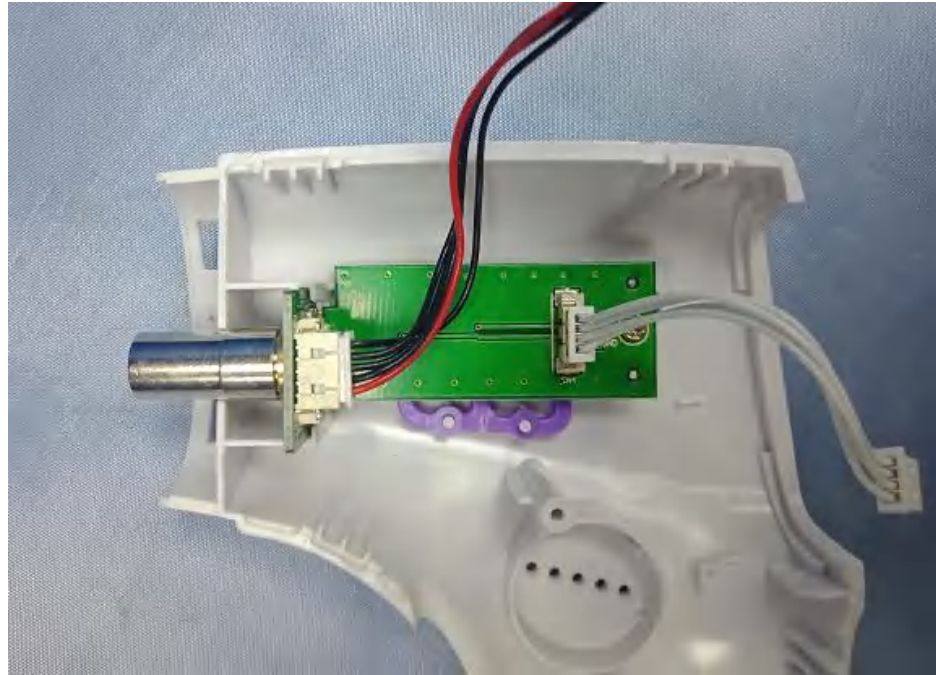
SGS China Inspection & Testing Services Co., Ltd. No. 198 Kechu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Attachment 2: Photo Documentation

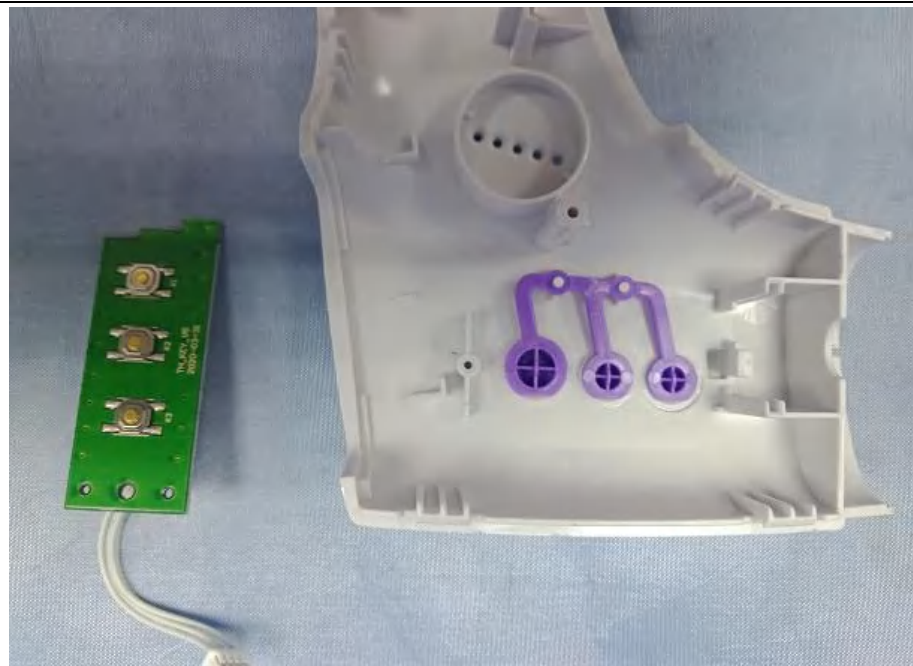
Details of: HG01 V1, internal view

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

Details of: HG01 V1, internal view

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.198 Kaitu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

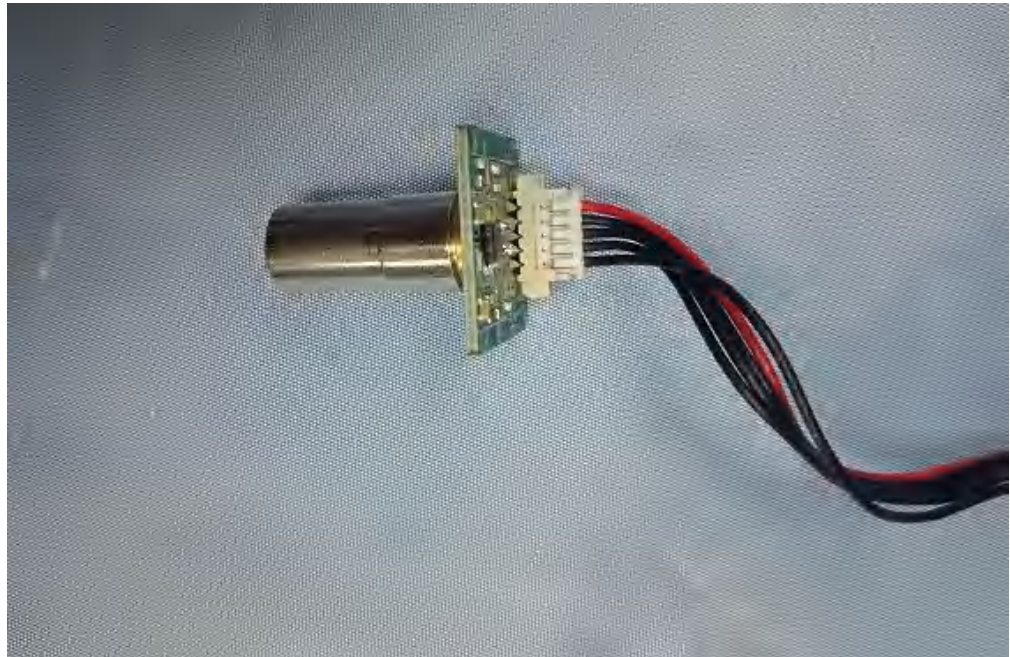
Member of the SGS Group (SGS SA)



## Attachment 2: Photo Documentation

Details of:     HG01 V1, Temperature sensor    

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottomDetails of:     HG01 V1, Battery compartment    

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 1442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

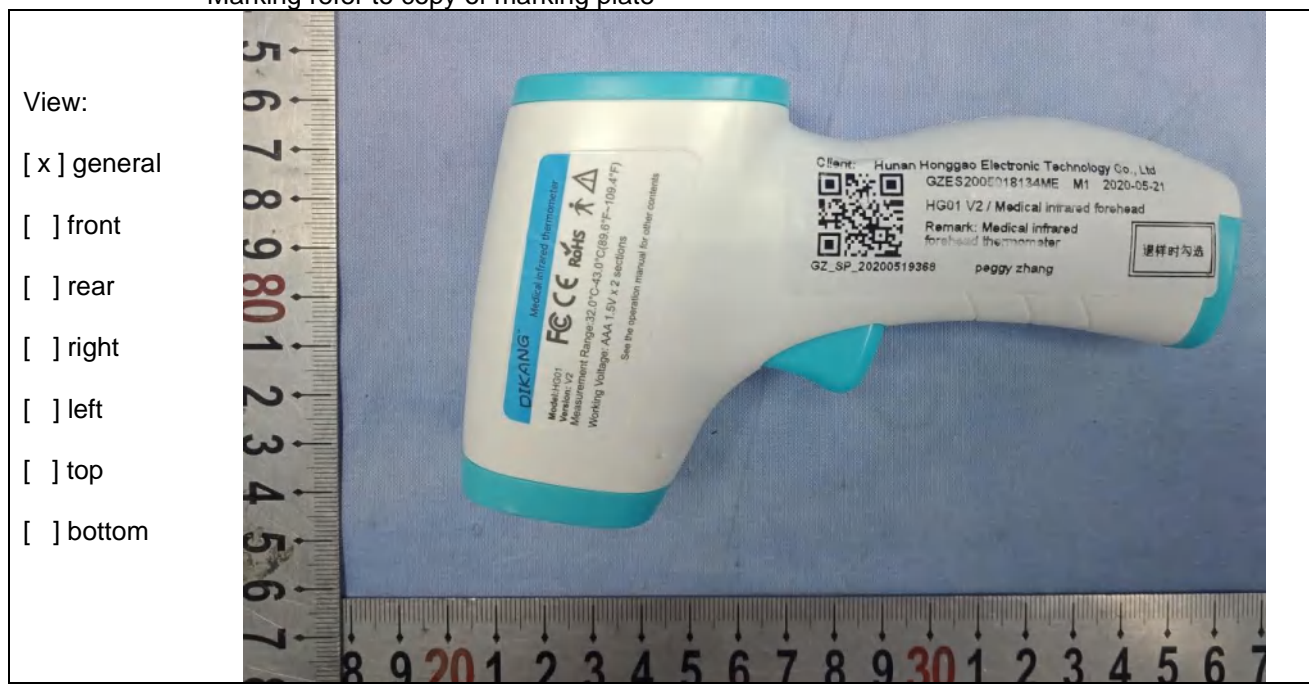
No.198 Kechu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



## Attachment 2: Photo Documentation

Details of: HG01 V1, Temperature sensor  
 Marking refer to copy of marking plate



Details of: HG01 V2  
 Marking refer to copy of marking plate



TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com).

No.198 Kechu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Attachment 2: Photo Documentation

Details of: HG01 V2

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

Details of: HG01 V2

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com).

SGS-CHINA Inspection & Testing Services Co., Ltd. No. 198 Kaituo Road, Sientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

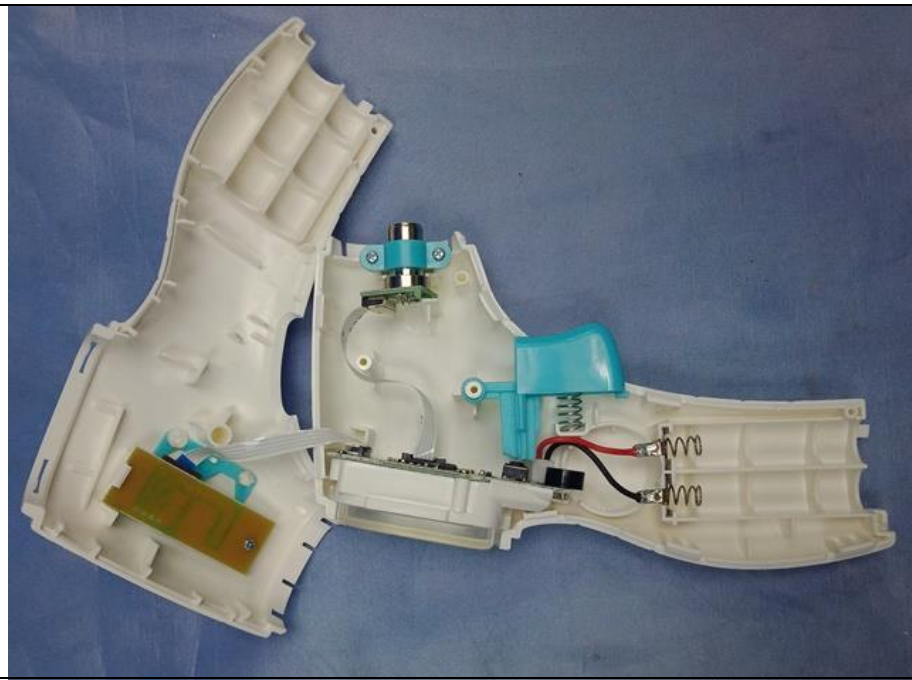
## Attachment 2: Photo Documentation

Details of:     HG01 V2, Battery compartment    

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottomDetails of:     HG01 V2, Internal view    

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 7442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No. 198 Kechu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

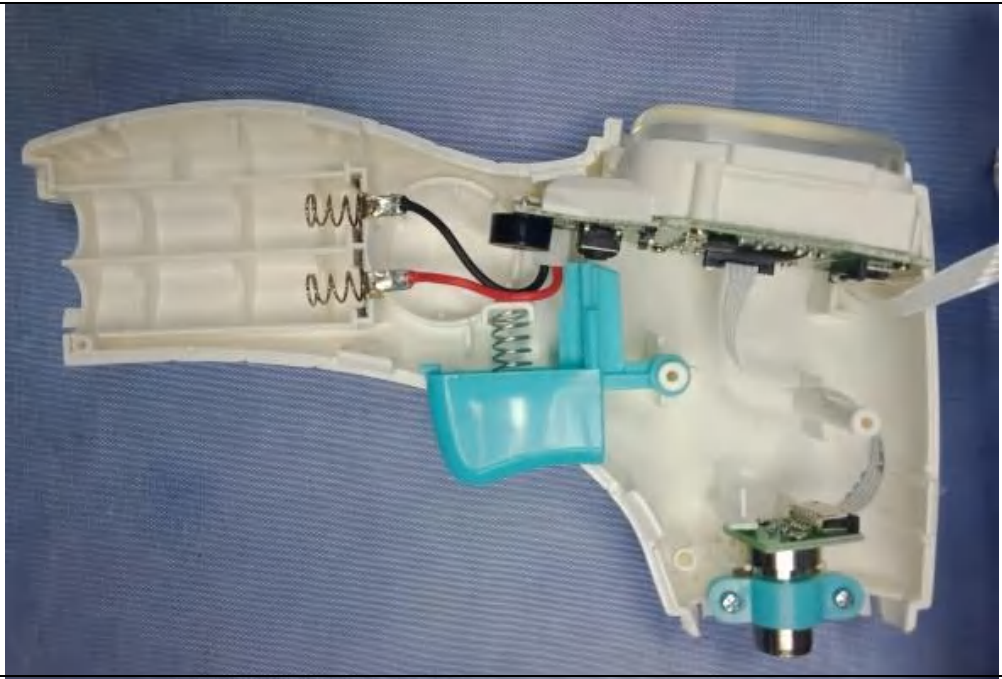
Member of the SGS Group (SGS SA)



## Attachment 2: Photo Documentation

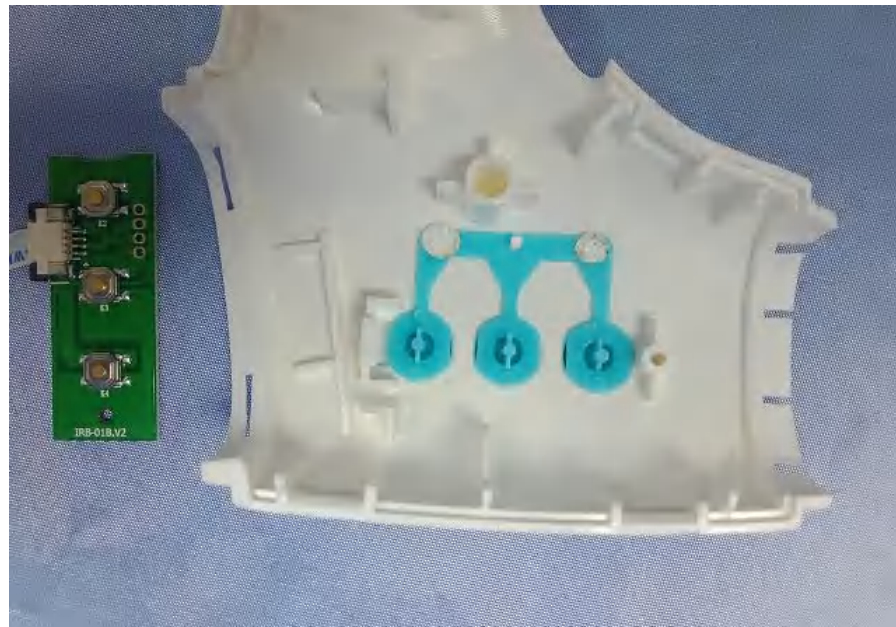
Details of: HG01 V2, Internal view

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

Details of: HG01 V2, Internal view

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report and certificate, please contact us at telephone: (86-755) 8387 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

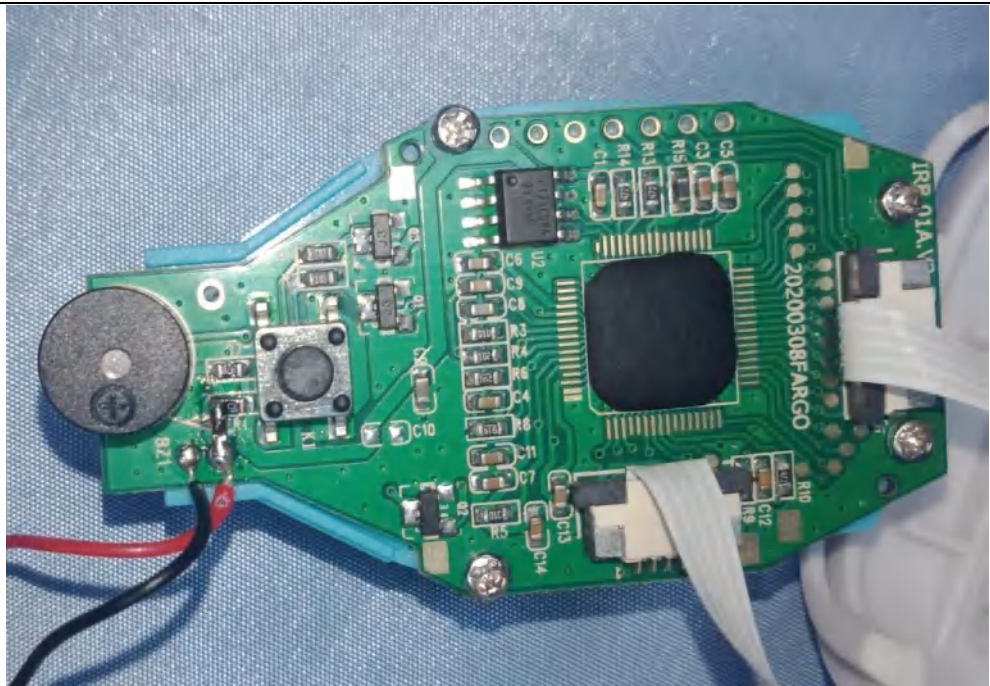
SGS-Genéral Inspection & Testing Services Co., Ltd. No. 198 Kaituo Road, Sientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

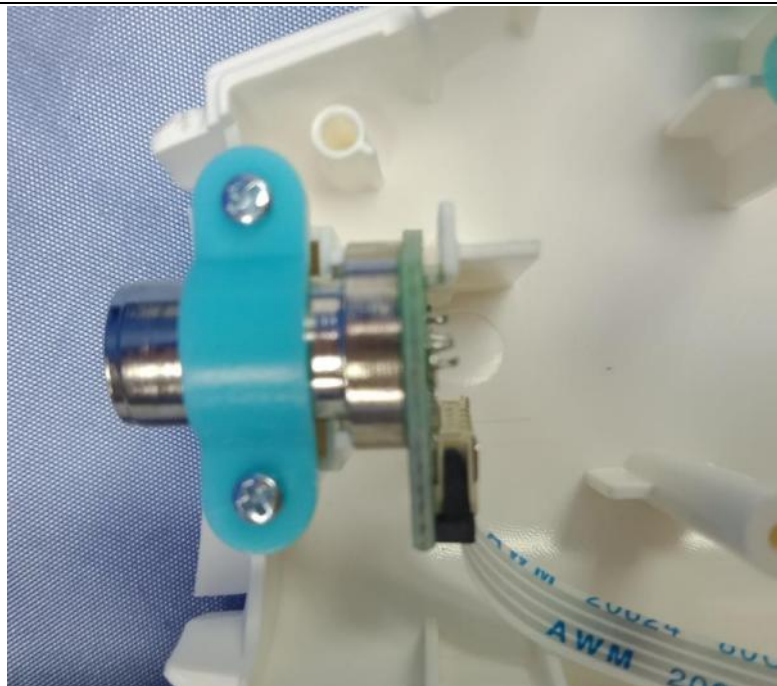
## Attachment 2: Photo Documentation

Details of: HG01 V2, PCB

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottomDetails of: HG01 V2, Temperature sensor

View:

☒ general☐ front☐ rear☐ right☐ left☐ top☐ bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

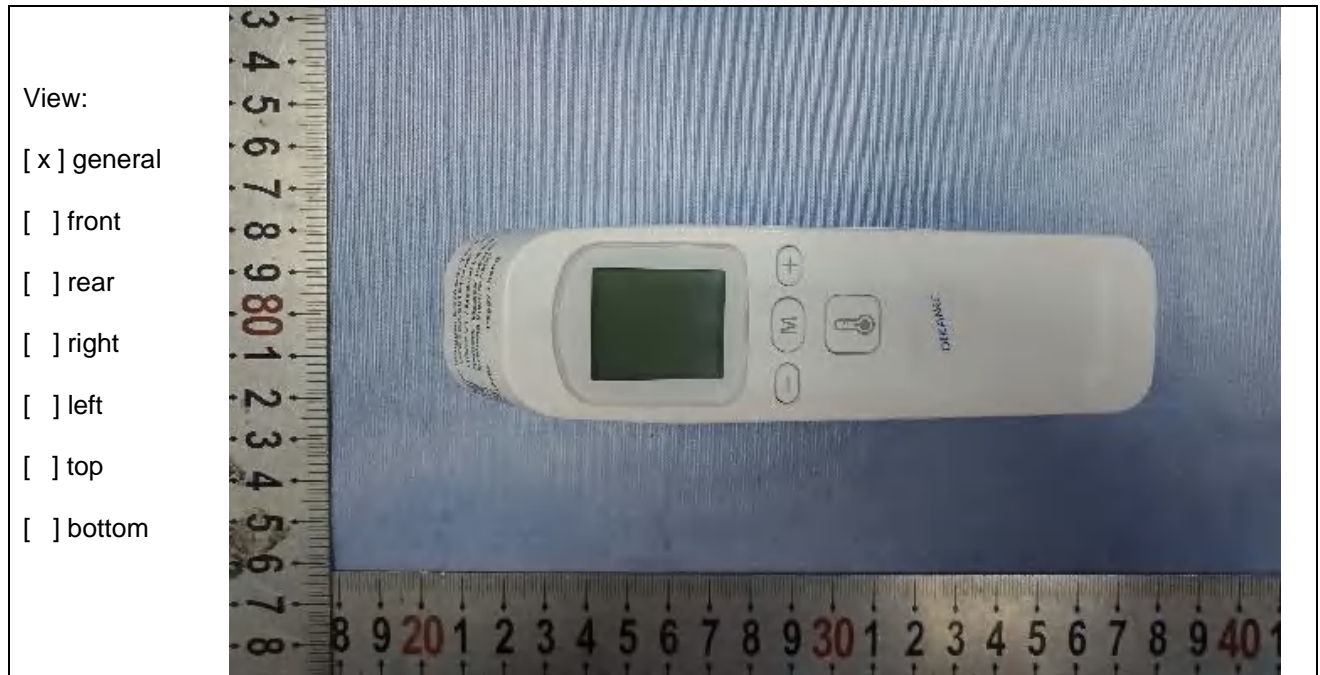
No.198 Kachin Road, Sientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

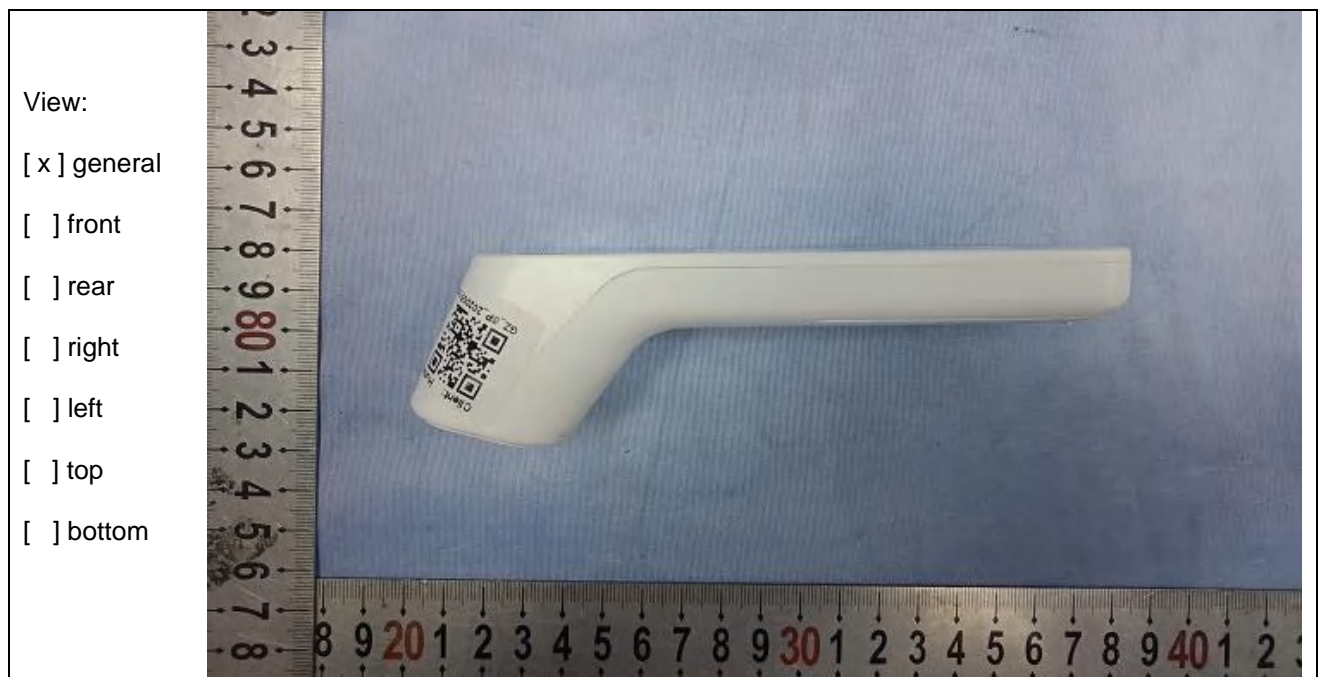


## Attachment 2: Photo Documentation

Details of: HG02 V1



Details of: HG02 V1



TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [EN.Doccheck@sgs.com](mailto:EN.Doccheck@sgs.com).

No.191 Kaitu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



## Attachment 2: Photo Documentation

Details of: HG02 V1

Marking refer to copy of marking plate



Details of: HG02 V1, Battery compartment



TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

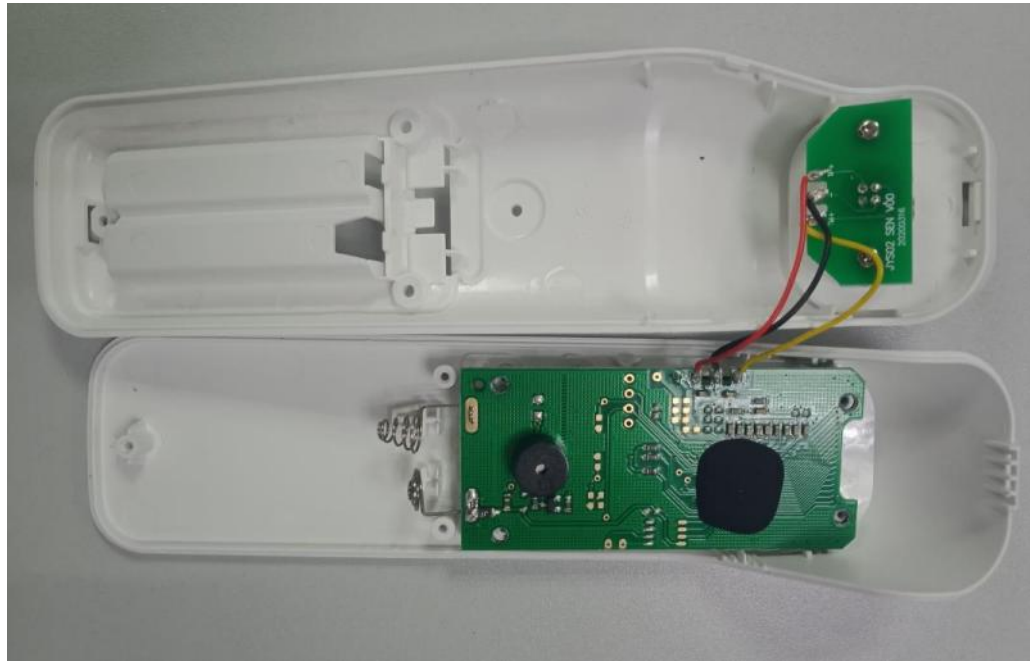
No.198 Kechu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Attachment 2: Photo Documentation

Details of: HG02 V1, Internal view

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

Details of: HG02 V1, Internal view

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 3442, or email: [SN.Doccheck@sgs.com](mailto:SN.Doccheck@sgs.com)

No. 198 Kachiu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

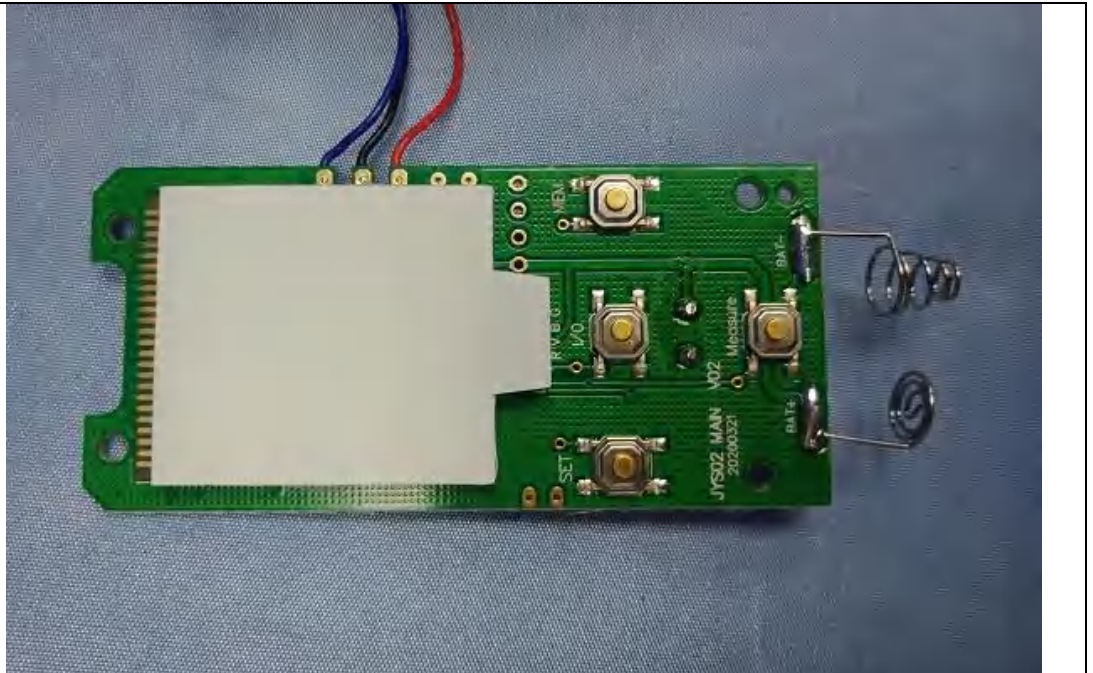
Member of the SGS Group (SGS SA)



## Attachment 2: Photo Documentation

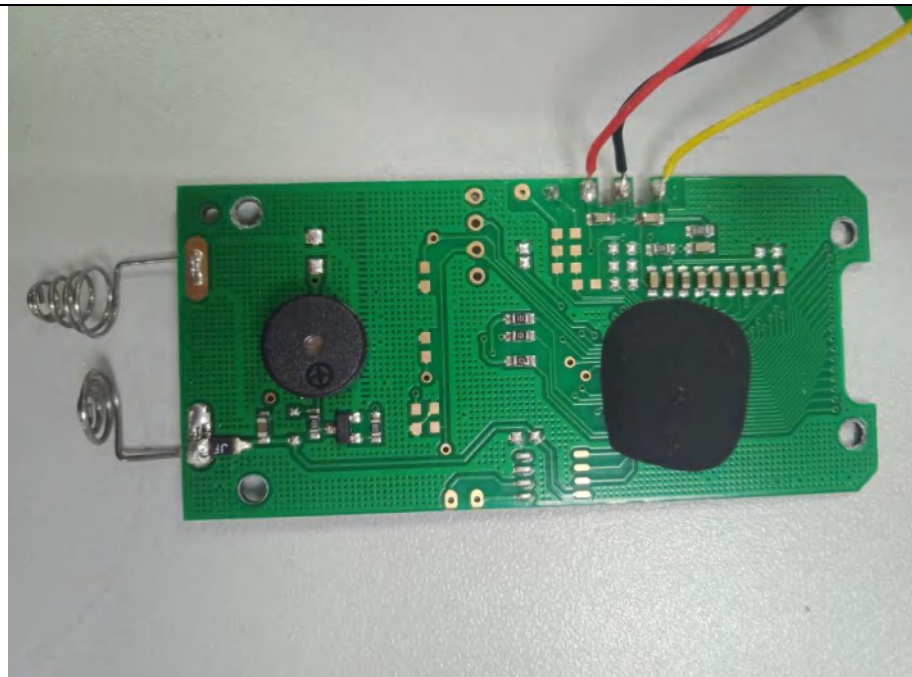
Details of: HG02 V1, PCB

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

Details of: HG02 V1, PCB

View:

☒ [ x ] general☐ [ ] front☐ [ ] rear☐ [ ] right☐ [ ] left☐ [ ] top☐ [ ] bottom

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8387 1442, or email: [EN.Doccheck@sgs.com](mailto:EN.Doccheck@sgs.com)

No. 198 Kechu Road, Saientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075058 | [www.sgs.com](http://www.sgs.com)  
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)



Attachment 2: Photo Documentation

Details of:     HG02 V1, Temperature sensor    

View:

☒ [ x ] general

☐ [ ] front

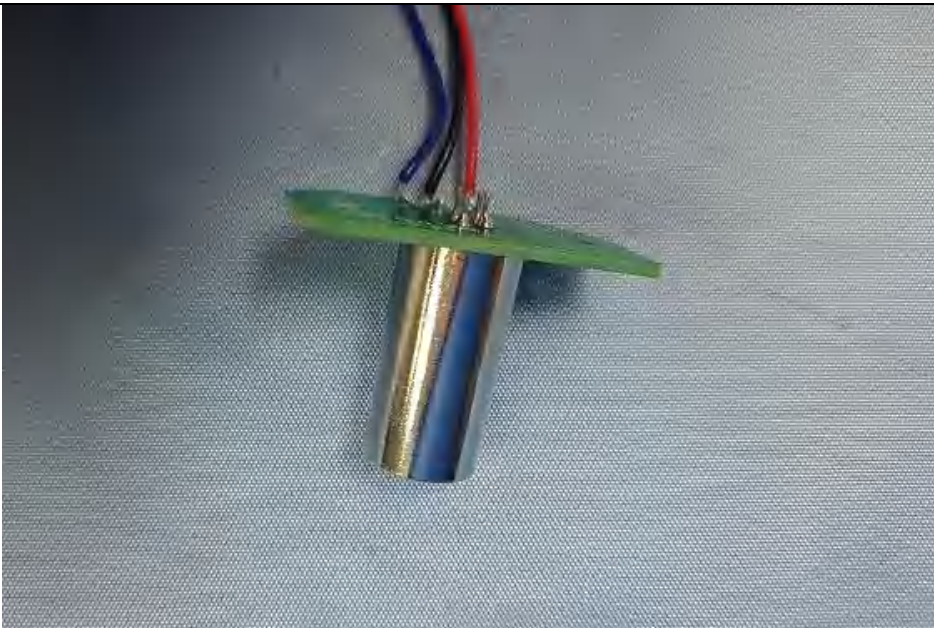
☐ [ ] rear

☐ [ ] right

☐ [ ] left

☐ [ ] top

☐ [ ] bottom



-- End of this report --

TRF No.: ASTM E 1965-98(Reapproved 2009)b



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 1442, or email: [EN.Doc.china@sgs.com](mailto:EN.Doc.china@sgs.com)

SGS-CQV Technology Service Co., Ltd.  
Guangzhou Branch / 广州分公司 / 检测实验室  
No.198 Kaifu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663    中国·广州·经济技术开发区科学城科珠路198号  
510663    邮编: 510663    电话: (86-20) 82155555    传真: (86-20) 82075058    网址: [www.sgs.com.cn](http://www.sgs.com.cn)    邮箱: [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)