

校准证书
CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202306052087C-0001

第 1 页 共 5 页

Page

of

委托方

Client

KMUTT, Faculty of Engineering, Department of Electrical Engineering

联络信息

Contact Inf.

126 Pracha Uthit Rd., Bang Mod, Thung Khru, Bangkok 10140, Thailand

仪器名称

Description

Electrodynamic Vibration Generator System

型号/规格

Model/Type

LVD-100KG-6D

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

SOLS20240120

管理号

Asset No.

接收日期

Receipt Date

2024年04月26日

校准日期

Cal. Date

2024年04月26日

Y M D

发布日期

Issued Date

2024年05月30日

Y M D

批准

Approved by

陈亚东, 陈亚东

审核

Inspected by

胡劲标, 胡劲标

校准

Calibrated by

潘耀圉, 潘耀圉

证书专用章

(Stamp)

总部地址(Headquarters Add.): 广东省广州市黄埔大道西平云路163号

No.163.Pingyun Rd, West of HuangPu Ave.Guangzhou Guangdong China

实验室地址(Add.of the Lab): 广东省广州市黄埔大道西平云路163号

No.163.Pingyun Rd,West of HuangPu Ave.Guangzhou,Guangdong,China

联系电话(Tel.):400-602-0999

邮政编码(Postcode):510656

网站(Website):http:// www.grgtest.com

电子邮件(E-mail):grgtest@grgtest.com



扫一扫验真伪

校准说明 DIRECTIONS OF CALIBRATION

证书编号: J202306052087C-0001

第 2 页 共 5 页

Certificate No.

Page of

- 1.本实验室的质量管理体系符合ISO/IEC 17025:2017标准的要求,校准结果均可溯源至国际单位制(SI)单位。
(The quality system is in accordance with ISO/IEC 17025:2017,the calibration results are traceable to the International System of Units (SI).)
- 2.本结果仅对本次校准样品有效。未经实验室批准,不得部分复制。如有疑问请在15个工作日内反馈。
(The result is only valid for the calibrated sample.The certificate shall not be reproduced except in full,without the written approval of our laboratory .please feedback to us within 15 days if you have any question.)
- 3.本证书编号具有唯一性,后缀若带有“-Gx”的证书为替换证书,自发出后原证书即刻作废。
(Each certificate has a unique number. The suffix of "-Gx" will be added to the number as a replacement of the old version. The original certificate will be officially invalid once the new certificate number is issued.)
- 4.证书中最大允许误差、判定结果仅供参考,其中“P”代表“合格”,“F”代表“不合格”,“N/A”代表“不适用”。使用人员应结合实际测量需求,评估测量不确定度对符合性评定的影响。(MPE & judgement result in the datasheet is only for reference , "P" is "Pass" , "F" is "Fail" and "N/A" is "Not Applicable".Whereas users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.)
- 5.校准地点、环境条件(Place and environmental conditions of the calibration):
地点: 客户一楼车间
Place
温度: 21℃ 相对湿度: 50%
Temperature Relative Humidity
- 6.建议复校时间间隔: 1年,送校单位也可按实际使用情况自主决定。
Suggested calibration interval is 1 year or it can be altered depending on the actual usage of the user.
- 7.本次校准的技术依据。(Reference document for calibration.)

JJG 948-2018 电动振动试验系统检定规程(V.R. of Electrodynamic Vibration Testing Systems)

校准说明
DIRECTIONS OF CALIBRATION

证书编号: J202306052087C-0001

第 3 页 共 5 页

Certificate No.

Page of

8. 本次校准使用的主要测量标准(Main Standards of Measurement Used in the Calibration.):

名称	编号	证书号/有效期	溯源机构	技术特征
Description	Serial No.	Certificate No./ Due Date	Traceability Institute	Technique Character
单向加速度计 (5个)	LW381283等	J202402181444- 0038 2025-02-26	广电计量检测集 团股份有限公司	频率响应:(1~3000)Hz,MPE:± 5%;加速 度:(1~5000)m/s ² ,MPE:±3%;
数据采集仪	202112001	J202402181444- 0037 2025-02-26	广电计量检测集 团股份有限公司	A级

9. 计量溯源性声明(Measurement traceability declaration.):

单向加速度计 (5个) (LW381283等)→标准加速度计/Reference accelerometer(6150577)→绝对法振动幅值和
相位标准装置(中国计量科学研究院/NIM);
数据采集仪(202112001)→数字多用表/Digital Multimeter(MY57227464)→多产品校准器/Multifunction
calibrator(4211501)→电压、电流交直流转换标准装置/Standard device for voltage and current AC/DC
conversion(中国计量科学研究院);

校 准 结 果
RESULTS OF CALIBRATION

证书编号: J202306052087C-0001

第 4 页 共 5 页

Certificate No.

Page of

一、外观及各部分相互作用: 符合要求

Appearance and the function of each part of interaction: Conformance to Requirements

二、振动方向: 垂直方向 (空载)

The vibration direction: vertical direction

1、频率示值误差校准:

Vibration frequency indication error calibration:

设定值	实测值	示值误差	示值允差	结论	不确定度
Set Value	Measured Value	Indication Error	MPE	Conclusion	Uncertainty
(Hz)	(Hz)	---	---	(P/F)	$U(k=2)$
50	49.97	+0.03Hz	$\pm 0.10\text{Hz}$	P	0.02Hz
100	99.95	+0.05Hz	$\pm 0.10\text{Hz}$	P	0.02Hz
200	199.9	+0.10Hz	$\pm 0.20\text{Hz}$	P	0.04Hz

2、台面加速度幅值示值误差校准:

Test system table acceleration indication error calibration:

频率	设定值	实测值	示值误差	允差	结论	不确定度
Frequency	Set Value	Measured Value	Indication Error	MPE	Conclusion	Uncertainty
(Hz)	(g)	(g)	(%)	(%)	(P/F)	$U_{\text{rel}}(k=2)$
50	0.8	0.771	+2.5	± 8.0	P	3.2%

3、位移幅值示值校准:

Calibration of displacement amplitude indication:

频率	设定值	实测值	示值误差	允差	结论	不确定度
Frequency	Set Value	Measured Value	Indication Error	MPE	Conclusion	Uncertainty
(Hz)	(mm)	(mm)	(%)	(%)	(P/F)	$U_{\text{rel}}(k=2)$
50	0.16	0.156	+2.6	± 8.0	P	3.2%

校准结果
RESULTS OF CALIBRATION

证书编号: J202306052087C-0001

Certificate No.

第 5 页 共 5 页

Page of

注: $1g=9.80665m/s^2$

备注:

Notes:

结论(Conclusion): 所校项目符合技术要求 Calibration items meet technical requirements

1.本报告中的扩展不确定度是由标准不确定度乘以包含概率约为95%时的包含因子 k 。

The expanded uncertainty is given in the report by the standard uncertainty multiplied by the probability of about 95% when the factor k .

2.依据(Reference document)

JJF 1059.1-2012 测量不确定度评定与表示

(JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

3.按客户要求校准

Calibration according to customer requirements

4.位移允差参照加速度允差

Displacement tolerance refer to acceleration tolerance

(以下空白)

(The below is blank)