

校准证书
CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202503275230-0001

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委托方

Client

Research Center of Informatic Industries (RCII)

联络信息

Contact Inf.

No.3, Roudsar St., Shahid Azodi St., South Aban St., Karim, Khan-e-Zand St., Tehran, Iran, 15875/3485

仪器名称

Description

P2b\4 Simulator

型号/规格

Model/Type

LIS-7620

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

7620-0250301

管理号

Asset No.

接收日期

Receipt Date

2025年03月28日

Y M D

校准日期

Cal. Date

2025年04月08日

Y M D

发布日期

Issued Date

2025年04月08日

Y M D

批准

Approved by

赵大星

赵大星

审核

Inspected by

焦一鹏

焦一鹏

校准

Calibrated by

彭敬恒

彭敬恒

证书专用章

(Stamp)

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实验室地址(Add.of the Lab): 江苏省无锡市新吴区宁韵路8号

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扫一扫验真伪

校验码: 778833

校准说明 DIRECTIONS OF CALIBRATION

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- 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,修改后的证书以客户端内容为准。(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.The modified certificate shall be based on the client content.)
 - 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: 无锡计量电子室
Place Wuxi Metrology Electronics Room
温度: 21.5℃ 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及CNAS认可范围,超出范围的内容未被认可。详细认可范围请查看CNAS网站证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate on CNAS website for details.)
- JJF(电子) 0019-2018 汽车电瞬态传导骚扰模拟器校准规范(C.S. for Road vehicles- Electrical Transient Conduction Disturbance Simulators) 脉冲幅度: $\pm(1\sim700)V$ 上升时间: 1ns~10ms 持续时间: 100ns~10s 试验电压: $\pm(10\sim100)V$

校准说明
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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
温湿度表 Temperature and humidity meter	570962	J202408232312- 0033 2025-09-01	广电计量检测 (无锡)有限公 司	温度: $U=0.4^{\circ}\text{C}$ ($k=2$), 湿 度: $U=2.0\%\text{RH}$ ($k=2$)
差分探头	C030769	J202411063491- 0036 2025-11-25	广电计量检测集 团股份有限公司	衰减比: 100/1000 (6kvpk, 100MHz) $\pm 2\%$
数字示波器	C054158	J202502066618- 0026 2026-02-20	广电计量检测 (无锡)有限公 司	直流增益: $\pm 1.5\%$; 时基: $\pm 10\text{ppm}$

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

差分探头(C030769)→多功能校准仪(4123901)→精密交流测量标准(4439903)/精密交直流同轴分流器(05155847)/三相多功能综合校验仪(89439)→精密交流测量标准/精密交直流同轴分流器/三相多功能综合校验仪(中国计量科学研究院/NIM);差分探头(C030769)→数字示波器/Oscilloscope (C056097)→频率计/Frequency Counter(6E5042029)→铷原子频率标准/Rubidium Atomic Frequency Standards(051101)→铯原子频率标准 Cesium atomic frequency(广东省计量科学研究院SCM);差分探头(C030769)→数字万用表/ Digital multimeter(MY59012208)→数字多用表/ Digital multimeter(456175079)→频率计 (6E5042005) →铷原子频率标准 (广东省计量科学研究院/SCM);
数字示波器(C054158)→数字多用表/Digital multimeter(MY60066625)→八位半台式万用表/Digital multimeter(413773335)→数字多用表校准装置/Digital multimeter calibration device;数字示波器(C054158)→频率计(6F8052009)→函数信号发生器 (MY43005619) →功率计探头 (101396) →小功率座检定装置 (中国计量科学研究院/NIM);

校准结果
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1、外观以及一般性检查: 正常

In view of External and Generality check : Pass

2、测试模式(Test Mode):

2.1、Pulse 2b (Nominal 12 V/24V System)

测试项目 Test Items	标称值 Nominal (V)	实测值 Measured (V)	误差 Error (V)	不确定度 $U_{rel} (k=2)$ (%)	允许误差 MPE (V)	结论 Conclusion (Pass/Fail)
Us	10	10.0	0.0	3.5	± 1.0	P
	20	20.0	0.0	3.5	± 2.0	P
	(ms)	(ms)	(ms)	(%)	(ms)	
T12	1	1.00	0.00	5.5	± 0.50	P
T6	1	1.00	0.00	5.5	± 0.50	P
Tr	1	1.00	0.00	5.5	± 0.50	P
	200	200	0	5.5	± 40	P
Td	500	496	4	5.5	± 100	P
	2000	1998	2	5.5	± 400	P

2.3、Pulse 4 (Nominal 12 V System)

测试项目 Test Items	标称值 Nominal (V)	实测值 Measured (V)	误差 Error (V)	不确定度 $U_{rel} (k=2)$ (%)	允许误差 MPE (V)	结论 Conclusion (Pass/Fail)
Us	-6	-6.0	0.0	3.5	± 0.6	P
	-7	-7.0	0.0	3.5	± 0.7	P
Ua	-2.5	-2.5	0.0	3.5	± 0.3	P
	-6	-6.0	0.0	3.5	± 0.6	P
	(ms)	(ms)	(ms)	(%)	(ms)	
T7	50	50.2	-0.2	5.5	± 10.0	P
	100	100.0	0.0	5.5	± 20.0	P
T8		46.0	/	5.5	≤50	P
	5	5.20	-0.20	5.5	± 1.00	P
T11	10	10.00	0.00	5.5	± 2.00	P
	100	100	0	5.5	± 20	P
	(s)	(s)	(s)	(%)	(s)	
T9	0.5	0.49	0.01	5.5	± 0.10	P
	1	1.00	0.00	5.5	± 0.20	P
	2	2.01	-0.01	5.5	± 0.40	P

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2.4、Pulse 4 (Nominal 24 V System)

测试项目 Test Items	标称值 Nominal	实测值 Measured	误差 Error	不确定度 $U_{rel}(k=2)$	允许误差 MPE	结论 Conclusion (Pass/Fail)
	(V)	(V)	(V)	(%)	(V)	
Us	-12	-12.0	0.0	3.5	± 1.2	P
	-16	-15.4	-0.6	3.5	± 1.6	P
Ua	-5	-5.0	0.0	3.5	± 0.5	P
	-12	-11.7	-0.3	3.5	± 1.2	P
	(ms)	(ms)	(ms)	(%)	(ms)	
T7	50	50.0	0.0	5.5	± 10.0	P
	100	100	0	5.5	± 20	P
T8		47.8	/	5.5	≤ 50	P
	10	10.0	0.0	5.5	± 2.0	P
T11	50	50.0	0.0	5.5	± 10.0	P
	100	99	1	5.5	± 20	P
	(s)	(s)	(s)	(%)	(s)	
T9	0.5	0.50	0.00	5.5	± 0.10	P
	1	1.00	0.00	5.5	± 0.20	P
	2	1.99	0.01	5.5	± 0.40	P

Notes:

结论 (Conclusion): 所校项目符合技术要求

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)

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