

校准证书

CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202603304954-0001

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委托方

Client

Molto Luce GmbH

联络信息

Contact Inf.

Europastraße 45, 4600 Wels

仪器名称

Description

IEC60598 Figure G.4 Simulated Human Impedance Touch Current Measuring Network

型号/规格

Model/Type

MNTC-G4

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

LS2603101028

管理号

Asset No.

接收日期

Receipt Date

2026年03月30日

校准日期

Cal. Date

2026年04月01日

Y M D

发布日期

Issued Date

2026年04月01日

Y M D

批准

Approved by

李文兴

李文兴

审核

Inspected by

卢松清

卢松清

校准

Calibrated by

刘灿星

刘灿星

证书专用章

(Stamp)

总部地址(Headquarters Add.): 广东省广州市番禺区创运路8号

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联系电话(Tel.):400-602-0999

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网站(Website):http:// www.grgtest.com

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扫一扫验真伪

校验码: 941644

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: 广州电能表计量室

Place Guangzhou Energy Meter Calibration Room

温度: 22℃

相对湿度: 54%

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.)

JJG 183-2017 标准电容器检定规程 (V.R. of Standard Capacitors) 电容: 1pF~10mF(50Hz~100kHz); 损耗因数: 0.0002~1.0(100Hz~1kHz)

JJG 166-2022 直流标准电阻器检定规程 (V.R. of DC Standard Resistors) 电阻: 1mΩ~200MΩ

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DIRECTIONS OF CALIBRATION

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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 Description	编号 Serial No.	证书号/有效期 Certificate No./ Due Date	溯源机构 Traceability Institute	技术特征 Technique Character
数字万用表 Digital multimeter	MY60029318	J202507243358- 0003 2026-08-01	广电计量检测集 团股份有限公司	DCV: $\pm 0.0035\%$ ACV: $\pm 0.06\%$ DCI: $\pm 0.05\%$ ACI: $\pm 0.1\%$ R: \pm 0.01% Freq: $\pm 0.01\%$
RLC电桥 RLC Digibridge	G1-13470979	DCjz2025-01615 2026-07-24	中国计量科学研 究院/NIM	L: $1\mu\text{H}\sim 100\text{H}$; C: $1\text{pF}\sim 1\text{mF}$; R: 1 $\Omega\sim 100\text{k}\Omega$; D: $0.001\sim 1$; 0.02级

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

数字万用表/Digital multimeter(MY60029318)→数字多用表/Digital multimeter(971756779)→数字多用表校准装置(中国计量科学研究院/NIM);数字万用表/Digital multimeter(MY60029318)→多产品校准器(6333601)→精密数字电桥/RLC Digibridge(G1-18511145)→标准因素损耗因数箱/Standard factor loss box(1680119070101)→自动电容电桥(北京东方计量测试研究所/CASC);

校准结果 RESULTS OF CALIBRATION

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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、电容的校准 (1kHz)

Calibration of Capacitance

标称值 Nominal (μF)	实测值 Measured (μF)	误差 Error (μF)	不确定度 $U(k=2)$ (μF)	允许误差 MPE (μF)	结论 Conclusion (Pass/Fail)
1.5	1.501	-0.001	0.015	± 0.080	P

3、直流电阻的校准

Calibration of DC Resistance

标称值 Nominal (Ω)	实测值 Measured (Ω)	误差 Error (Ω)	不确定度 $U(k=2)$ (Ω)	允许误差 MPE (Ω)	结论 Conclusion (Pass/Fail)
150	150.3	-0.3	1.5	± 7.5	P

备注:

Notes:

结论(Conclusion): 所校准项目符合技术要求The calibrated items meet the 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)

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