



校准证书

CALIBRATION CERTIFICATE

证书编号 DYQ202322134
Certificate No.

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委托方 忻州市综合检验检测中心
Client

委托方联络信息 忻州市建设北路85号
Contact Information

计量器具名称 接地电阻测试仪 (钳形接地电阻表)
Description

型号/规格 ETCR2000+
Model/Type

制造厂 广州市依泰电子科技有限公司
Manufacturer

出厂编号 20531007 设备管理编号
Serial No. Equipment No.

接收日期 2023 年 11 月 27 日
Date of Receipt Y M D

结果 见校准结果
Results Shown in the results of calibration

校准日期 2023 年 12 月 01 日
Date of Calibration Y M D

批准人 吴海益
Approved Signatory

核 验 李华杰 李华杰
Reviewed by

校 准 庞俊南 庞俊南
Calibrated by

证书专用章
Stamp



扫一扫查真伪



说 明

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DIRECTIONS

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1. 本中心是国家市场监督管理总局在华南地区设立的国家法定计量检定机构, 本中心的质量管理体系符合 ISO/IEC 17025:2017 标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation. The quality system is in accordance with ISO/IEC 17025:2017.

2. 本中心所出具的数据均可溯源至国家计量基准和/或国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and/or International System of Units (SI).

3. 校准地点、环境条件:

Place and environmental conditions of the calibration:

地点 本院电磁实验室	温度 (19~21) °C	相对湿度 (50~60) %
Place (Electrics-magnetics Lab)	Temperature	R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJG1054-2009 钳形接地电阻仪检定规程 V.R. of Clamp Earth Resistance Meters

5. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号规格/测量范围	编号	证书号/有效期/溯源单位	计量特性
Name of Equipment	Serial No.	Certificate No./Due Date	Metrological
/Model/Type/Range		/Traceability to	Characteristic
实验室直流电阻器	9208293	DYQ202202731	0.01 级
DC Resistance Box		/2023-12-21	Grade 0.01
/ZX54/(0.01~111111.1)Ω		/本中心	

注: 1. 本证书校准结果只与受校准仪器有关。The results relate only to the items calibrated.

Note: 2. 未经本机构书面批准, 不得部分复制此证书。This certificate shall not be reproduced except in full, without the written approval of our laboratory.

3. “委托方”、“委托方联络信息”由委托方提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注, 委托方对上面内容如有异议, 须在收到证书后二十个工作日内提出。

The information Client and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items. Client shall submit any objection within 20 working days after receiving the certificate for the information above.

4. 本次校准日期视为发布日期。The calibration date is the date of issue of the certificate.



校准结果

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- 1 外观 (Apparent inspection): 符合要求 (Pass)
- 2 通电检查 (Power on inspection) 符合要求 (Pass)
- 3 分辨力(Resolution) 符合要求 (Pass)
- 4 显示能力(Display capability) 符合要求 (Pass)

5 电阻测量见表1(Resistance test shown in table 1):

表1(Table 1)

示值 Indication (Ω)	标准值 Reference Value (Ω)	误差 Error (Ω)	允许误差 MPE (Ω)	结论 Conclusion (P/F)
0.09	0.1000	- 0.01	± 0.01	P
0.19	0.2000	- 0.01	± 0.01	P
0.50	0.5000	0.00	± 0.02	P
1.0	1.000	0.0	± 0.1	P
2.0	2.000	0.0	± 0.1	P
5.0	5.000	0.0	± 0.2	P
10.0	10.00	0.0	± 0.2	P
19.9	20.00	- 0.1	± 0.3	P
49.5	50.00	- 0.5	± 1.3	P
99	100.0	- 1	± 3	P
197	200.0	- 3	± 15	P
490	500.0	- 10	± 60	P
780	800.0	- 20	± 180	P
960	1000	- 40	± 280	P

说明:

Note:

1 本次测量结果的扩展不确定度:

The Expanded Uncertainty of Measurement

电阻 $U_{rel} = 0.6\%$ 包含因子 $k = 2$
Resistance Coverage factor



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本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子 k 得到。

The expanded uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

2 按委托方要求校准。

This Calibration is based on the commission.

3 校准结果符合性判定依据JJF1094-2002《测量仪器特性评定》之5.3.1和JJG1054-2009。

Decision rules of conformity are JJF1094-2002 *Evaluation of the Characteristics of Measuring Instruments* (5.3.1) and JJG1054-2009.

4 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子 k 得到。

The expanded uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.