



校准证书

CALIBRATION CERTIFICATE

证书编号 DYQ202001353
Certificate No.

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委托方 _____
Client

委托方联络信息 _____
Contact Information

计量器具名称 接地电阻/土壤电阻率测试仪 (接地电阻表)
Description

型号/规格 ETCR3100C
Model/Type

制造厂 广州市铤泰电子科技有限公司
Manufacturer

出厂编号 31500022 设备管理编号 _____
Serial No. Equipment No.

接收日期 2020 年 05 月 26 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 2020 年 06 月 03 日
Date of Calibration Y M D

批准人 张剑 张剑
Approved Signatory

核 验 李华杰 李华杰
Reviewed by

校 准 庞俊南 庞俊南
Calibrated by



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国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and 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 (20±1) °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:

JJG 366-2004 接地电阻表检定规程 V.R. of Earth Resistance Meter

FFD1901-2019 土壤电阻率测试仪校准方法 C.M. for Soil resistivity tester

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

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

/Traceability to

Characteristic

接地电阻表检定装置

130214

DYQ202000199

0.1 级

Verification Device Earth

/2021-01-14

Grade 0.1

Resistance Met

/本中心

/JD-1B

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。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.

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 RESULTS OF CALIBRATION

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1 外观 (Apparent inspection): 符合要求 (Pass)

2 接地电阻测量见表1(Resistance test shown in table 1):

表1(Table 1)

4 WIRES 示值 Indication (Ω)	标准值 Reference Value (Ω)	误差 Error (Ω)	允许误差 MPE (Ω)	结论 Conclusion (Pass/Fail)
0.10	0.1000	0.00	± 0.03	P
0.20	0.2000	0.00	± 0.03	P
0.50	0.5000	0.00	± 0.04	P
1.01	1.000	+ 0.01	± 0.05	P
2.00	2.000	0.00	± 0.07	P
5.01	5.000	+ 0.01	± 0.13	P
10.01	10.00	+ 0.01	± 0.23	P
20.06	20.00	+ 0.06	± 0.43	P
50.0	50.00	0.0	± 1.3	P
100.1	100.0	+ 0.1	± 2.3	P
200.3	200.0	+ 0.3	± 4.3	P
501	500.0	+ 1	± 13	P
1003	1000	+ 3	± 23	P
1904	1900	+ 4	± 41	P

3 电阻率测量见表2(Resistivity test shown in table 2):

表2(Table 2)

示值 Indication (Ω m)	实际值 Reference Value (Ω m)	误差 Error (Ω m)	允许误差 MPE (Ω m)	结论 Conclusion (Pass/Fail)
63.09	62.80	+ 0.29	± 3.1	P
125.6	125.6	0.0	± 4.4	P
251.9	251.2	+ 0.7	± 6.9	P
630.4	628.0	+ 2.4	± 14.4	P
1260	1256	+ 4	± 27	P
2506	2512	- 6	± 69	P
6285	6280	+ 5	± 144	P
(k Ω m)	(k Ω m)	(k Ω m)	(k Ω m)	(Pass/Fail)
12.58	12.56	+ 0.02	± 0.44	P
25.14	25.12	+ 0.02	± 0.69	P
63.01	62.80	+ 0.21	± 1.44	P
125.8	125.6	+ 0.2	± 4.4	P



校准结果

RESULTS OF CALIBRATION

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说明:

Note:

1 本次测量结果的扩展不确定度:

The Expanded Uncertainty of Measurement:

电阻 $U_{rel}=0.6\%$ 电阻率 $U_{rel}=0.6\%$

Resistance Resistivity

包含因子 $k=2$

Coverage factor

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 按照所依据技术文件的规定, 建议复校时间间隔不超过1年。

According to the demand of reference document, next calibration is proposed within 1 year.

