

中国认可
国际互认
校准
CALIBRATION
CNAS L10488

校准证书

CALIBRATION CERTIFICATE



证书编号

Certificate No.

ZD202403110090

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委托方

Client

广东铨电测控技术有限公司

委托方地址

Address

佛山市南海区桂城街道石龙北路105号联东智造园5座10楼

仪器名称

Description

接地引下线导通测试仪

型号规格

Model/Type

ETCR3650

制造厂

Manufacturer

广东铨电测控技术有限公司

出厂编号

Serial No.

3650240028

管理编号

Asset No.

/

样品接收日期

Date of Receipt

2024-03-11

校准日期

Date of Calibration

2024-03-11

批准人 :

Approved Signatory

苏瑶云

审核 :

Inspected by

巢弘

校准 :

Tested by

张辉

校准专用章
(stamp)



地址 : 广东省深圳市宝安区福永街道白石厦社区东区新开发区4栋203

Add : Room 203, Building 4, New Development Area, East Zone, Baishixia Community, Fuyong Sub-District, Bao'an District, Shenzhen, Guangdong, China

电话 (Tel) : 0755-29888158

邮政编码 (Post Code) : 518103

传真 (Fax) : 0755-29796107



校准说明

DIRECTIONS OF CALIBRATION

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- 1.本实验室出具的数据均可溯源至国家计量基准。
(All data issued by ZD Test are traced to National Primary Standards.)
- 2.本结果仅对当次被测样品有效，如有疑问请在15个工作日反馈。
(The results is ONLY valid for the tested sample,please feedback to us within 15 working days if you have any question.)
- 3.本证书编号具有唯一性，若替换证书，自发出后原证书即可作废。
(Each certificate has a unique number.If replaced the certificate,the original certificate will be invalid once the new certificate number is issued.)
- 4.证书中如有最大允许误差、判定结果，仅供参考，其中“P”代表“Pass”，“F”代表“Fail”。
(In the datasheet,MPE & determination is only for reference,"P"represents"Pass"and"F"represents"Fail".)
- 5.本次校准的技术依据及获认可的能力范围，超出范围的内容未被认可。
(Reference documents and Accredited Scopes for Calibration,Beyond the Scope has not been accredited.):

参照JJG(冀)169-2020《大地网接地电阻测试仪检定规程》

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

名称/型号 Description/Model	编号 Serial No.	证书号 Certificate No.	有效期至 Due Date	技术特征 Technique Character
模拟大功率直流标准电阻器	ZDW-D0142	ZS2350513115	2024-05-04	$U_{rel}=0.003\%,k=2$
交直流电阻箱	ZDW-E011	223204102	2023-10-10	$U_{rel}=0.03\%,k=2$

- 7.校准地点、环境条件 (Place and environmental conditions of the calibration)

地点 Place	委托方现场	温度 Temperature	22 °C	相对湿度 Relative Humidity	57 %
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- 8.建议复校时间间隔：
Suggested calibration interval is
- 12 个月，送检单位可根据实际情况自主决定。
12 month or it can be altered depending on the actual usage of the user.



校准结果

Result of Calibration

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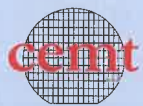
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1、外观以及一般性检查: 正常

In view of External and Generality check :Normal

2、电阻: (Resistance)

输出电流 Output Current	标准值 Standard value	实测值 Measured	误差 Error	允许误差 MPE	结论 Conclusion
	($\mu\Omega$)	($\mu\Omega$)	(%)	(%)	(Pass/Fail)
10A	500	500.1	0.02	± 0.2	P
	(Ω)	(Ω)	(%)	(%)	(Pass/Fail)
	1	1.001	0.10	± 0.2	P
5A	1.9	1.902	0.11	± 0.2	P
	(m Ω)	(m Ω)	(%)	(%)	(Pass/Fail)
	1	0.999	-0.10	± 0.2	P
	(Ω)	(Ω)	(%)	(%)	(Pass/Fail)
1A	2	2.002	0.10	± 0.2	P
	3.9	3.903	0.08	± 0.2	P
	(m Ω)	(m Ω)	(%)	(%)	(Pass/Fail)
	10	10.02	0.20	± 0.2	P
100mA	(Ω)	(Ω)	(%)	(%)	(Pass/Fail)
	10	10.01	0.10	± 0.2	P
	19	19.02	0.11	± 0.2	P
	1	1.002	0.20	± 0.2	P
	100	100.1	0.10	± 0.2	P
	190	190.2	0.11	± 0.2	P



校准结果

Result of Calibration

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3、输出电流: (Output Current)

标准值 Standard value	实测值 Measured	误差 Error	允许误差 MPE	结论 Conclusion
(mA)	(mA)	(%)	(%)	(Pass/Fail)
100	100.200	0.20	± 5.0	P
(A)	(A)	(%)	(%)	(Pass/Fail)
1	1.002	0.20	± 5.0	P
5	5.01	0.20	± 5.0	P
10	10.02	0.20	± 5.0	P

说明: 本次测量结果不确定度说明

Notes: Uncertainty in the Measurement

依据JJF1059.1—2012测量不确定度评定与表示

According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement

本次测量结果的扩展不确定度:

The Extended Uncertainty of the Measurement Results

电阻: $U_{rel}=0.6\%$; 电流: $U_{rel}=0.6\%$ $k=2$

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