



中国认可
国际互认
校准
CALIBRATION
CNAS L10466

校准证书

CALIBRATION CERTIFICATE



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证书编号

Certificate No.

ZD202403110089

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

高压绝缘电阻测试仪

型号规格

Model/Type

ETCR3520B

制造厂

Manufacturer

广东铨电测控技术有限公司

出厂编号

Serial No.

3521240095

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

巢红

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JJG1005-2019《电子式绝缘电阻表检定规程》

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
可调式高阻箱	ZD-D 031	JL2380865031	2024-07-24	U _{rel} =0.06%
高阻高压表	ZDW-51502	23023102	2024-09-16	U _{rel} =0.33% , 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: 12 个月,送检单位可根据实际情况自主决定。
Suggested calibration interval is 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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1、外观以及一般性检查: 正常

In view of External and Generality check : Normal

2、电阻测量的校准:

Calibration of Resistance Measurement

测量电压 Test Voltage (V)	标准值 Reference (MΩ)	示值 Indication (MΩ)	误差 Error (MΩ)	允许误差 MPE (MΩ)	结论 Conclusion (Pass/Fail)	
1000	1	1.1	0.1	± 0.5	P	
	2	2.5	0.5	± 0.6	P	
	5	5.3	0.3	± 0.7	P	
	10	10.1	0.1	± 0.8	P	
	20	20.4	0.4	± 1.1	P	
	50	50.3	0.3	± 2.0	P	
	100	102	2	± 10	P	
	200	206	6	± 15	P	
	500	511	11	± 30	P	
		(GΩ)	(GΩ)	(GΩ)	(GΩ)	
	1	1.06	0.06	± 0.10	P	
(V) 2500	(MΩ)	(MΩ)	(MΩ)	(MΩ)		
	2	1.9	-0.1	± 0.6	P	
	5	4.6	-0.4	± 0.7	P	
	10	9.9	-0.1	± 0.8	P	
	20	19.8	-0.2	± 1.1	P	
	50	49.3	-0.7	± 2.0	P	
	100	99	-1	± 10	P	
	200	197	-3	± 15	P	
	500	486	-14	± 30	P	
		(GΩ)	(GΩ)	(GΩ)	(GΩ)	
	1	0.92	-0.08	± 0.10	P	
(V) 5000	(MΩ)	(MΩ)	(MΩ)	(MΩ)		
	5	5.2	0.2	± 0.7	P	
	10	10.5	0.5	± 0.8	P	
	20	20.3	0.3	± 1.1	P	
	50	50.4	0.4	± 2.0	P	
	100	105	5	± 10	P	
	200	206	6	± 15	P	
	500	519	19	± 30	P	
		(GΩ)	(GΩ)	(GΩ)	(GΩ)	
		1	1.02	0.020	± 0.1	P



校准结果

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测量电压 Test Voltage (V)	标准值 Reference (MΩ)	示值 Indication (MΩ)	误差 Error (MΩ)	允许误差 MPE (MΩ)	结论 Conclusion (Pass/Fail)
10000	10	10.6	0.6	± 0.8	P
	20	20.4	0.4	± 1.1	P
	50	51.2	1.2	± 2.0	P
	100	103	3	± 10.0	P
	200	211	11	± 15	P
	500	524	24	± 30	P
	(GΩ)	(GΩ)	(GΩ)	(GΩ)	
	1	1.05	0.05	± 0.10	P

3. 测量电压的校准:

Calibration of Test Voltage

标称值 Nominal (V)	实测值 Measured (V)	误差 Error (V)	允许误差 MPE (V)	结论 Conclusion (Pass/Fail)
1000	1009	-9	± 200	P
2500	2519	-19	± 500	P
5000	5122	-122	± 1000	P
10000	10154	-154	± 2000	P

备注:

Notes:

1. 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)

2. 直流电压测量结果的相对扩展不确定度: $U_{rel}=0.6%$, $k=2$

Related Expanded Uncertainty of DC Voltage Measurement Results

3. 电阻测量结果的相对扩展不确定度: $U_{rel}=2.5%$; $k=2$

Related Expanded Uncertainty of Resistance Measurement Results

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