



校准证书

CALIBRATION CERTIFICATE

证书编号 DYQ201907229
Certificate No.

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委托方 广州市铨泰电子科技有限公司
Client

委托方联络信息
Contact Information

计量器具名称 10kV 高压绝缘电阻测试仪
Description

型号规格 3500B
Model/Type

制造厂 ETCR
Manufacturer

出厂编号 35290001
Serial No.

设备编号
Equipment No.

接收日期 2019 年 12 月 19 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 2019 年 12 月 30 日
Date of Calibration Y M D

批准人
Approved Signatory 戴伟 戴伟

核 验
Reviewed by 戴汶清 戴汶清

校 准
Calibrated by 林翔 林翔



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 Place (Electrics-magnetics Lab)	温度 (20±3) °C Temperature	相对湿度 (45~60) % R.H.
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4. 本次校准的技术依据:

Reference documents for the calibration:

JJG1005-2005 电子式绝缘电阻表检定规程 V. R. of Electronic Insulating 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 Name of Equipment /Model/Type	编号 Serial No.	证书号/有效期/溯源单位 Certificate No./Due Date /Traceability to	计量特性 Metrological Characteristic
兆欧表检定装置 High Voltage and Value D. C. Resistor Box /ZX119-10	110407	DYQ201904482 /2020-08-28 /本中心	0.2 级 Grade 0.2
兆欧表端电压测试仪 Megohm-meter Voltage Tester /PZY-2	1149	DYQ201960026 /2020-01-06 /本中心	1.0 级 Grade 1.0



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

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- 一、外观(Apparent inspection): 符合要求 (Pass)
- 二、显示能力 (Display capability) : 符合要求 (Pass)
- 三、跌落电压 (Voltage drop) : 符合要求 (Pass)
- 四、绝缘电阻(Insulation resistance): 符合要求 (Pass)
- 五、示值误差测量结果见表1(Error of indication test shown in table 1):

表1(Table 1)

量程 Range	示值 Indication (MΩ)	标准值 Reference Value (MΩ)	误差 Error (MΩ)	允许误差 MPE (MΩ)	结论 Conclusion (Pass/Fail)	扩展 不确定度 $U_{rel}(k=2)$
500V	1.06	1.000	+ 0.06	±0.08	P	1.7%
	9.99	10.00	- 0.01	±0.53	P	1.7%
	99.96	100.0	- 0.04	±5.03	P	1.7%
	998.9	1000	- 1.1	±50.2	P	1.7%
	(GΩ)	(GΩ)	(GΩ)	(GΩ)	(Pass/Fail)	$U_{rel}(k=2)$
1000V	10.09	10.00	+ 0.09	±1.04	P	3.0%
	98.33	100.0	- 1.67	±9.86	P	3.0%
	(MΩ)	(MΩ)	(MΩ)	(MΩ)	(Pass/Fail)	$U_{rel}(k=2)$
	1.06	1.000	+ 0.06	±0.08	P	1.7%
	4.86	5.000	- 0.14	±0.27	P	1.7%
	9.92	10.00	- 0.08	±0.53	P	1.7%
	49.93	50.00	- 0.07	±2.53	P	1.7%
	99.99	100.0	- 0.01	±5.03	P	1.7%
	499.8	500.0	- 0.2	±25.3	P	1.7%
	(GΩ)	(GΩ)	(GΩ)	(GΩ)	(Pass/Fail)	$U_{rel}(k=2)$
1.00	1.000	0.00	±0.08	P	1.7%	
4.99	5.000	- 0.01	±0.53	P	3.0%	
9.98	10.00	- 0.02	±1.03	P	3.0%	
49.43	50.00	- 0.57	±4.97	P	3.0%	
98.51	100.0	- 1.49	±9.88	P	3.0%	
487.3	500.0	- 12.7	±97.8	P	6.0%	



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表1(Table 1)

量程 Range	示值 Indication (M Ω)	标准值 Reference Value (M Ω)	误差 Error (M Ω)	允许误差 MPE (M Ω)	结论 Conclusion (Pass/Fail)	扩展 不确定度 $U_{rel}(k=2)$
2500V	9.75	10.00	- 0.25	± 0.52	P	1.7%
	100.9	100.0	+ 0.9	± 5.3	P	1.7%
	(G Ω)	(G Ω)	(G Ω)	(G Ω)	(Pass/Fail)	$U_{rel}(k=2)$
	1.00	1.000	0.00	± 0.08	P	1.7%
	10.00	10.00	0.00	± 1.03	P	3.0%
	98.75	100.0	- 1.25	± 9.91	P	3.0%
5000V	495.6	500.0	- 4.4	± 99.4	P	6.0%
	(M Ω)	(M Ω)	(M Ω)	(M Ω)	(Pass/Fail)	$U_{rel}(k=2)$
	100.2	100.0	+ 0	± 5.3	P	1.7%
	(G Ω)	(G Ω)	(G Ω)	(G Ω)	(Pass/Fail)	$U_{rel}(k=2)$
	1.00	1.000	0.00	± 0.08	P	1.7%
	9.83	10.00	- 0.17	± 1.01	P	3.0%
98.66	100.0	- 1.34	± 9.90	P	3.0%	
485.5	500.0	- 14.5	± 97.4	P	6.0%	

六、开路电压测量结果见表2(Open circuit voltage test shown in table 2):

表2(Table 2)

标称值 Nominal Value (V)	实际值 Reference Value (V)	误差 Error (%)	允许误差 MPE (%)	结论 Conclusion (Pass/Fail)	扩展 不确定度 $U_{rel}(k=2)$
500	524.5	+ 4.9	[-10, 20]	P	1.7%
1000	1042	+ 4.2	[-10, 20]	P	1.7%
2500	2605	+ 4.2	[-10, 20]	P	1.7%
5000	5210	+ 4.2	[-10, 20]	P	1.7%

说明:

Note:

1.按委托方要求校准。

This Calibration is based on the commission.

2.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 JJF 1059.1-2012 "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%.





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3.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.

