



校准证书

CALIBRATION CERTIFICATE

证书编号 GDDD202300178

Certificate No.

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(代替GDDD202300172号证书)

委托方 优利德科技(中国)股份有限公司

Client

委托方联络信息 广东省东莞市松山湖工业北一路6号

Contact Information

计量器具名称 电压测试仪 (数字多用表)

Description

型号规格 UT18S

Model/Type

制造厂 UNI-T

Manufacturer

出厂编号 /

Serial No.

设备编号 UNI-T-001

Equipment No.

接收日期

Date of Receipt

2023 年 02 月 28 日

Y M D

结果

Results

见校准结果

Show in the results of calibration

校准日期

Date of calibration

2023 年 02 月 28 日

Y M D

批准人

Approved Signatory

何洪波

核 验

Reviewed by

何洪波

校 准

Calibrated by

叶峻江

证书专用章
Stamp





说 明

证书编号 GDDD202300178

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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 General Administration of Quality Supervision. 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 本院电学实验室	温度	20 °C	相对湿度	51 %
Place	Temperature		RH	

4. 本次校准的技术依据:

Reference documents for the calibration:

JJF 1587-2016 数字多用表校准规范 C.S. for Multimeters

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
多功能标准源/5522A	4259901	DBS202207451 /2023-07-27 /本中心	DCV: $U_{rel} = 0.0012\%$, ACV: $U_{rel} = 0.017\%$, DCA: $U_{rel} = 0.011\%$, ACA: $U_{rel} = 0.05\%$, DCR: $U_{rel} = 0.003\%$, DCW: $U_{rel} = 0.022\%$; ACW: $U_{rel} = 0.08\%$ ($k=2$)

- 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.
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. 本证书发布日期为2023/3/6。The certificate is issued on 2023/3/6.



校准结果

RESULTS OF CALIBRATION

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一、直流电压：见表1

DCV: Shown in table 1

表1 Table 1

极性	量程	标准值	指示值	误差	允许误差	结论
Polar	Range	Reference Value	Indication Value	Error	MPE	Conclusion
+	(mV)	(mV)	(mV)	(mV)	(mV)	P/F
	400	390	390	0	±11	Pass
	(V)	(V)	(V)	(V)	(V)	P/F
	4	3.900	3.905	0.005	±0.064	Pass
	40	39.00	39.09	0.09	±0.64	Pass
	400	390.0	391.0	1.0	±6.4	Pass
-	690	600	600	0	±14	Pass
	(mV)	(mV)	(mV)	(mV)	(mV)	P/F
	400	390	390	0	±11	Pass
	(V)	(V)	(V)	(V)	(V)	P/F
	4	3.900	3.906	0.006	±0.064	Pass
	40	39.00	39.08	0.08	±0.64	Pass
400	390.0	391.0	1.0	±6.4	Pass	
690	600	600	0	±14	Pass	

二、交流电压：见表2

ACV: Shown in table 2

表2 Table 2

频率	量程	标准值	指示值	误差	允许误差	结论
Freq	Range	Reference Value	Indication Value	Error	MPE	Conclusion
50	(mV)	(mV)	(mV)	(mV)	(mV)	P/F
	400	390	387	-3	±11	Pass
	(V)	(V)	(V)	(V)	(V)	P/F
	4	3.900	3.906	0.006	±0.064	Pass
	40	39.00	39.08	0.08	±0.64	Pass
	400	390.0	390.8	0.8	±6.4	Pass
690	600	601	1	±14	Pass	



校准结果

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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:

直流电压: $U_{rel}=0.11\%$;交流电压: $U_{rel}=0.15\%$;

包含因子 $k=2$, 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。

Coverage factor $k=2$, 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%.

2.校准结果符合性判定依据JJF1094-2002《测量仪器特性评定》第5.3.1条款和该仪器说明书技术要求。

Decision rules of conformity is in JJF1094-2002《Evaluation of the Characteristics of Measuring Instruments》 and the technical requirements in the manual.

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。更换重要部件、维修或对仪器性能有怀疑时, 应及时校准。

According to the demand of reference document, next calibration is proposed within 1 year. In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.

4.更改内容: 型号规格“UT18”更改为“UT18S”, 原证书作废。

