



华南国家计量测试中心
广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY



中国认可
国际互认
校准
CALIBRATION
CNAS L0730

校准证书

CALIBRATION CERTIFICATE

证书编号 GDD202500222
Certificate No.

第 1 页, 共 6 页
Page of

客户名称 优利德科技(中国)股份有限公司
Name of the Customer

联络信息 广东省东莞市松山湖园区工业北一路6号
Contact Information

计量器具名称 数字多用表
Description

型号/规格 UT195DS
Model/Type

制造厂 UNI-T
Manufacturer

出厂编号 C81669240
Serial No.

设备管理编号 /
Equipment No.

接收日期 2025 年 02 月 25 日
Receipt on Y M D

结论 见校准结果
Conclusion

校准日期 2025 年 02 月 28 日
Calibration on Y M D

发布日期 2025 年 02 月 28 日
Issue on Y M D

批准 何洪波
Authorized by

核 验 何洪波
Reviewed by

校 准 叶峻江
Calibrated by



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说明

证书编号 GDDD202500222
Certificate No.

DIRECTIONS

第 2 页, 共 6 页
Page of

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 A4-406恒温实验室 温度 (19.8~19.9) °C 相对湿度 (53~55) %
Location 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/测量范围	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/Range		/Traceability to	Characteristic
多功能校准器	7425003	GDDD202400191	DCV: $U_{rel} = 0.0052\%$, DCA: $U_{rel} = 0.011\%$, R: $U_{rel} = 0.011\%$, ACV: $U_{rel} = 0.032\%$, ACI: $U_{rel} = 0.10\%$ ($k=2$)
/5500A/DCV:		/2025-03-05	
(0.001~1000)V; DCI: 1 μ A~11A; R: 1 Ω ~100M Ω ; ACV:		/本中心	
(0.001~1000)V; ACI: 30 μ A~11A			

- 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. “客户名称”、“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 Name of the Customer and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items.



校准结果

RESULTS OF CALIBRATION

证书编号 GDDD202500222
Certificate No.

原始记录号 202500222
Record No.

第 3 页, 共 6 页
Page of 葛

一、外观及通电检查

Appearance and power inspection

结论: Pass

二、直流电压的示值误差（直流电压）：见表1

Error of DC voltage indication(DC voltage):Shown in table 1

表1 Table 1

极性	量程	标准值	显示值	误差	最大允许误差	结论
Polar	Range	Standard value	Indication Value	Error	MPE	Conclusion
	(mV)	(mV)	(mV)	(mV)	(mV)	P/F
+	600	590.0	589.9	-0.1	±4.4	Pass
	(V)	(V)	(V)	(V)	(V)	P/F
	6	5.900	5.894	-0.006	±0.030	Pass
	60	59.00	58.94	-0.06	±0.44	Pass
	600	590.0	589.2	-0.8	±4.4	Pass
	1000	600	599	-1	±7	Pass
	(mV)	(mV)	(mV)	(mV)	(mV)	P/F
-	600	590.0	589.9	-0.1	±4.4	Pass
	(V)	(V)	(V)	(V)	(V)	P/F
	6	5.900	5.893	-0.007	±0.030	Pass
	60	59.00	58.93	-0.07	±0.44	Pass
	600	590.0	589.1	-0.9	±4.4	Pass
	1000	600	599	-1	±7	Pass

三、交流电压的示值误差（交流电压）：见表 2

Error of AC voltage indication(AC voltage):Shown in table 2

表2 Table 2

测试频率	量程	标准值	显示值	误差	最大允许误差	结论
Freq	Range	Standard value	Indication Value	Error	MPE	Conclusion
(Hz)	(mV)	(mV)	(mV)	(mV)	(mV)	P/F
50	600	590.0	589.9	-0.1	±6.3	Pass



校准结果

RESULTS OF CALIBRATION

证书编号 GDDD202500222
Certificate No.

原始记录号 202500222
Record No. 葛

第 4 页, 共 6 页
Page of 葛

续表2 Table 2

测试频率	量程	标准值	显示值	误差	最大允许误差	结论
Freq	Range	Standard value	Indication Value	Error	MPE	Conclusion
(Hz)	(V)	(V)	(V)	(V)	(V)	P/F
50	6	5.900	5.891	-0.009	±0.044	Pass
	60	59.00	58.91	-0.09	±0.62	Pass
	600	590.0	589.1	-0.9	±6.2	Pass
	750	600	599	-1	±9	Pass

四、直流电流的示值误差（直流电流）：见表 3

Error of DC current indication(DC current):Shown in table 3

表3 Table 3

极性	量程	标准值	显示值	误差	最大允许误差	结论
Polar	Range	Standard value	Indication Value	Error	MPE	Conclusion
	(μ A)	(μ A)	(μ A)	(μ A)	(μ A)	P/F
+	600	590.0	590.4	0.4	±5.0	Pass
	(mA)	(mA)	(mA)	(mA)	(mA)	P/F
	6	5.900	5.904	0.004	±0.050	Pass
	60	59.00	59.01	0.01	±0.50	Pass
	600	590.0	590.2	0.2	±5.0	Pass
	(A)	(A)	(A)	(A)	(A)	P/F
	6	5.900	5.896	-0.004	±0.062	Pass
	20	9.00	8.99	-0.01	±0.10	Pass
	(μ A)	(μ A)	(μ A)	(μ A)	(μ A)	P/F
-	600	590.0	590.4	0.4	±5.0	Pass
	0	(mA)	(mA)	(mA)	(mA)	P/F
	6	5.900	5.905	0.005	±0.050	Pass
	60	59.00	59.01	0.01	±0.50	Pass
	600	590.0	590.4	0.4	±5.0	Pass
	(A)	(A)	(A)	(A)	(A)	P/F
	6	5.900	5.896	-0.004	±0.062	Pass
	20	9.00	8.99	-0.01	±0.10	Pass



校准结果

RESULTS OF CALIBRATION

证书编号 GDDD202500222
Certificate No.

原始记录号 202500222
Record No.

葛

第 5 页, 共 6 页
Page of 葛

五、交流电流的示值误差（交流电流）：见表4

Error of AC current indication(AC current):Shown in table 4

表4 Table 4

测试频率	量程	标准值	显示值	误差	最大允许误差	结论
Freq	Range	Standard value	Indication Value	Error	MPE	Conclusion
(Hz)	(μ A)	(μ A)	(μ A)	(μ A)	(μ A)	P/F
50	600	590.0	589.6	-0.4	± 6.2	Pass
	(mA)	(mA)	(mA)	(mA)	(mA)	P/F
	6	5.900	5.899	-0.001	± 0.062	Pass
	60	59.00	58.99	-0.01	± 0.62	Pass
	600	590.0	590.0	0.0	± 6.2	Pass
	(A)	(A)	(A)	(A)	(A)	P/F
	6	5.900	5.895	-0.005	± 0.074	Pass
	20	9.00	8.99	-0.01	± 0.12	Pass

六、直流电阻的示值误差（电阻）：见表5

Error of Resistance indication(Resistance):Shown in table 5

表5 Table 5

量程	标准值	显示值	误差	最大允许误差	结论
Range	Standard value	Indication Value	Error	MPE	Conclusion
(Ω)	(Ω)	(Ω)	(Ω)	(Ω)	P/F
600	590.0	589.6	-0.4	± 6.1	Pass
(k Ω)	(k Ω)	(k Ω)	(k Ω)	(k Ω)	P/F
6	5.900	5.901	0.001	± 0.049	Pass
60	59.00	59.01	0.01	± 0.49	Pass
600	590.0	590.1	0.1	± 4.9	Pass
(M Ω)	(M Ω)	(M Ω)	(M Ω)	(M Ω)	P/F
6	5.900	5.886	-0.014	± 0.074	Pass
60	10.00	10.02	0.02	± 0.10	Pass



校准结果 RESULTS OF CALIBRATION

证书编号 GDDD202500222
Certificate No.

原始记录号 202500222
Record No. 葛

第 6 页, 共 6 页
Page of 葛

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: $U_{rel}=0.15\%$; 直流电流: $U_{rel}=0.15\%$; 交流电流: $U_{rel}=0.3\%$; 电阻: $U_{rel}=0.15\%$;

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 JJF1094-2002 "Evaluation of the Characteristic of Measuring Instruments" (5.3.1) and the technical requirements in the manual.

3. 该仪器的溯源日期为本证书的“校准日期”, 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。

The traceability date of this instrument is the "Calibration Date" on this certificate. 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. 校准活动中对测量结果有影响的条件:

Conditions under which the calibrations were made that have an influence on the measurement results:

温度(Temperature): $(19.8 \sim 19.9)^{\circ}\text{C}$, 湿度(Humidity): $(53 \sim 55)\% \text{RH}$.

