

校准证书

CALIBRATION CERTIFICATE

证书编号:



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Certificate No.

J202111276355B-0001

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委托方

Energy & Power Industries Laboratories Co

Client

联络信息

Unit 12, No. 2, Boujari Sefat Dead-End, Corner of
FarimanSt.,Bozorgmehr St.,Vali-Asr Ave.,Tehran, Iran(Post code:
1416854523)

Contact Inf.

仪器名称

High and Low Temperature Humidity Chamber

Description

型号/规格

GDJS-010B

制造厂

LISUN GROUP

Model/Type

Manufacturer

出厂编号

SOLS20210483

管理号

Serial No.

Asset No.

接收日期

2021年12月01日

校准日期

2021年12月01日

Receipt Date

Y M D

Cal. Date

Y M D

发布日期

2021年12月01日

Issued Date

Y M D

批准

Approved by

周焰华 (副主任)

审核

Inspected by

莫丽娟

校准

Calibrated by

王旭东

证书专用章

(Stamp)

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扫一扫验真伪

校准说明

DIRECTIONS OF CALIBRATION

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- 1.本实验室的质量管理体系符合ISO/IEC 17025:2017标准的要求。
(The quality system is in accordance with ISO/IEC 17025:2017.)
- 2.本结果仅对本次校准样品有效。未经实验室批准,不得部分复制。如有疑问请在15个工作日内反馈。
(The result is only valid for the calibrated sample.The certificate shall not be reproduced except in full,without the written approval of our laboratroy .please feedback to us within 15 days if you have any question.)
- 3.本证书编号具有唯一性,后缀若带有“-Gx”的证书为替换证书,自发出后原证书即刻作废。
(Each certificate has a unique number. The suffix of "-Gx" will be added to the number as a replacement of the old version. The original certificate will be officially invalid once the new certificate number is issued.)
- 4.证书中最大允许误差、判定结果仅供参考,其中“P”代表“合格”,“F”代表“不合格”,“N/A”代表“不适用”。使用人员应结合实际测量需求,评估测量不确定度对符合性评定的影响。(MPE & judgement result in the datasheet is only for reference , "P" is "Pass" , "F" is "Fail" and "N/A" is "Not Applicable".Whereas users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.)
- 5.本次校准的技术依据及CNAS认可范围,超出范围的内容未被认可。详细认可范围请查看CNAS网站中的证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited.Please see the certificate attachments on the CNAS website.)

JJF1101-2019环境试验设备温度、湿度参数校准规范(C.S. of Environmental Testing Equipment for Temperature and Humidity Parameters) 湿度: (5~99)%RH 温度: (-80~500)°C

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

名称	编号	证书号/有效期	溯源机构	技术特征
Description	Serial No.	Certificate No./ Due Date	Traceability Institute	Technique Character
温湿度试验设备检定系统	19902317	J202101195428- 0031 2022-03-20	广州广电计量 检测股份有限 公司	MPE: 温度: $\pm 0.03\%$ FS(A级 铂电阻), $\pm 0.1\%$ (I级热电 偶);湿度: $\pm 1.5\%$ RH/ $\pm 0.2\%$

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

地点	力汕二楼实验室(LISUN FACTORY	温度	20.1	°C	相对湿度	51	%
Place	GROUND GLOOR)	Temperature			Relative Humidity		

8.建议复校时间间隔: 1年,送校单位也可按实际使用情况自主决定。

Suggested calibration interval is 1 year or it can be altered depending on the actual usage of the user.

校准结果 RESULTS OF CALIBRATION

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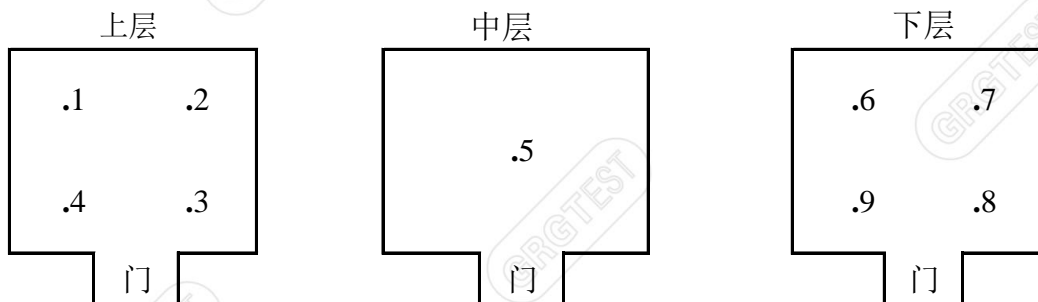
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(一): 温度测量

1 测量点布置图 (Measurement point graph):



2 温度测量 (Temperature measurement):

设定值 (Setting): -40.00 °C

指示值 (Indicated): -40.00 °C

测量点 (Measuring point)	最大值 (Max)	最小值 (Min)
温度(Temp.)	(°C)	(°C)
1	-40.72	-40.86
2	-40.81	-40.98
3	-40.71	-40.86
4	-40.81	-40.98
5	-40.49	-40.69
6	-40.47	-40.66
7	-40.46	-40.65
8	-40.52	-40.70
9	-40.70	-40.85

	允许误差 (MPE)	结论(P/F)
温度偏差(Temp deviation)	上偏差 -0.46 °C ±2.00 °C	P
	下偏差 -0.98 °C ±2.00 °C	P
温度波动度 (Temp fluctuation):	±0.10 °C ±0.50 °C	P
温度均匀度 (Temp uniformity):	0.35 °C 2.00 °C	P

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校准结果 RESULTS OF CALIBRATION

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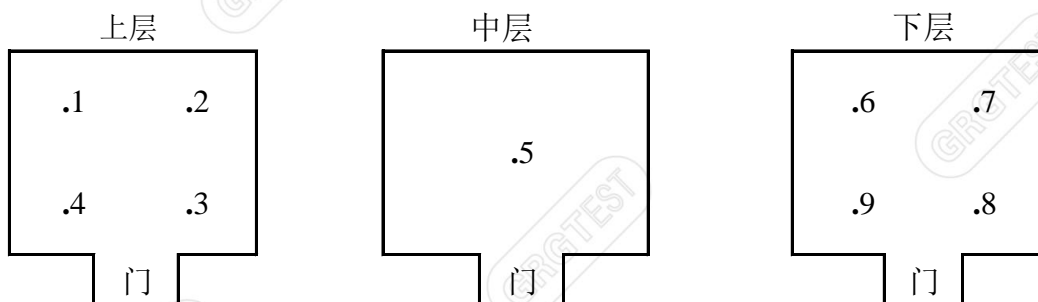
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(二): 温度测量

1 测量点布置图 (Measurement point graph):



2 温度测量 (Temperature measurement):

设定值 (Setting): 150.0 °C

指示值 (Indicated): 150.0 °C

测量点 (Measuring point)	最大值 (Max)	最小值 (Min)
温度(Temp.)	(°C)	(°C)
1	149.62	149.45
2	149.75	149.60
3	149.53	149.36
4	150.71	150.38
5	150.13	149.98
6	150.82	150.47
7	149.99	149.79
8	149.71	149.56
9	149.54	149.40

	允许误差 (MPE)	结论(P/F)
温度偏差(Temp deviation)	上偏差 +0.82 °C	P
	下偏差 -0.64 °C	P
温度波动度 (Temp fluctuation):	±0.17 °C	P
温度均匀度 (Temp uniformity):	1.21 °C	P

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校准结果 RESULTS OF CALIBRATION

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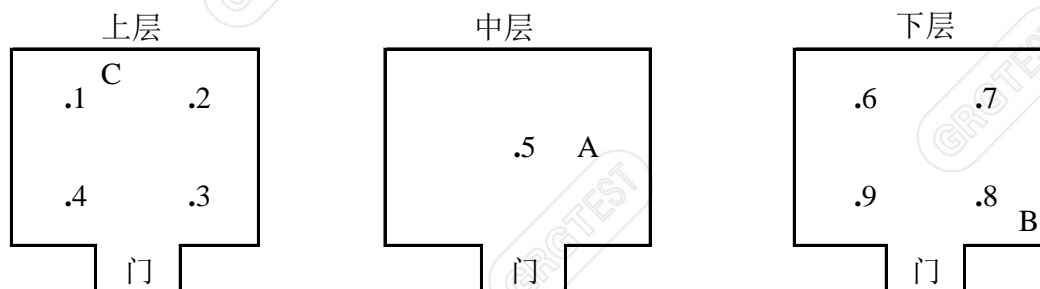
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(三): 湿热测量 (Damp heat measurement)

1 测量点布置图 (Measurement point graph):



2 湿热测量 (Damp heat measurement):

设定值 (Setting): 70.0 °C 70.0 %RH
指示值 (Indicated): 70.0 °C 70.0 %RH

测量点 (Measuring point)	最大值 (Max)	最小值 (Min)
温度(Temp.)	(°C)	(°C)
1	70.04	69.96
2	70.23	70.06
3	70.24	70.11
4	70.07	69.94
5	70.37	70.26
6	70.43	70.27
7	70.42	70.29
8	70.31	70.18
9	70.21	70.07

测量点 (Measuring point)	最大值 (Max)	最小值 (Min)
湿度(Humid)	(%RH)	(%RH)
A	70.04	69.91
B	68.83	68.70
C	70.48	70.36

		允许误差 (MPE)		结论(P/F)
温度偏差 (Temp deviation)	上偏差	+0.43 °C	±2.00 °C	P
	下偏差	-0.06 °C	±2.00 °C	P
温度波动度 (Temp fluctuation):		± 0.09 °C	±0.50 °C	P
温度均匀度 (Temp uniformity):		0.36 °C	2.00 °C	P
湿度偏差 (Humid deviation)	上偏差	+0.5 %RH	±5.0 %RH	P
	下偏差	-1.3 %RH	±5.0 %RH	P
湿度波动度 (Humid fluctuation):		± 0.1 %RH	±3.0 %RH	P
湿度均匀度 (Humid uniformity):		1.7 %RH	5.0 %RH	P

广州广电计量检测股份有限公司
印章

校准结果

RESULTS OF CALIBRATION

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(四): 控制器: 正常

The controller: Normal

备注:

Notes:

- 1 结论(Conclusion): 所校项目符合技术要求
- 2 按用户要求指定温度点校准(Specify temperature point by user):
- 3 各校准点位置与工作室内壁的距离不小于各边长的1/10;
(The distance between the position of calibration and the inner wall isn't less than 1/10 of each side);
- 4 校准时设备处于 空载 状态。(Load of equipment: idling)
- 5 本次测量结果扩展不确定度(Expanded uncertainty of the measurement results) :
 - 5.1湿度(Humidity): $U=2.0\%RH$, $k=2$;
 - 5.2温度(Temperature): $U=0.30^{\circ}C$, $k=2$;
- 6 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)

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广电计量