

# 校准证书

## Calibration certificate



中国认可  
国际互认  
校准  
CALIBRATION  
CNAS L5138

证书编号  
**Certificate No.** Z2018J2-A064544

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客户名称  
**Client Name** 绍兴电力电气检测中心有限公司

地 址  
**Address** 绍兴市城南大道1056号7幢101室

仪器名称  
**Description** 大电流发生器

型号/规格  
**Model/Type** SDDL-6000Q

制造厂商  
**Manufacturer** 青岛东来电气设备有限公司

出厂编号  
**Serial Number** 18DL0123

管理编号  
**Management No.** /

校准日期  
**Calibration Date** 2018 年 01 月 25 日  
**Year Month Day**

建议下次校准日期  
**Due Date** 2019 年 01 月 24 日  
**Year Month Day**



发证单位(专用章)  
**Issued by (stamp)**

批准:  
**Approved by**

颜洲研

核验:  
**Inspected by**

陈龙飞

校准:  
**Calibrated by**

黄勇

地址: 广东省深圳市龙岗区锦龙大道2号1栋、4栋、6栋  
ADD: Building 1/4/6, No.2, Jinlong Road, Longgang District,  
Shenzhen, Guangdong, China  
电话 (TEL): 0755-84815081

邮编 (Post Code): 518116  
网址: <http://www.51jL.org>  
传真 (Fax): 0755-28949551

# 说 明

## DIRECTIONS

证书编号  
**Certificate No.** Z2018J2-A064544

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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和国际单位制 (SI)。  
All data issued by the laboratory are traceable to National Primary Standards and International System of Units(SI).
2. 本证书未经签章、数据涂改、或分离使用均无效。未经本公司书面批准, 不得部分复制此证书。校准结果仅对受测仪器当时之情况负责。  
The Certificate is invalid when no stamp sealed on, data alteration or separate use. Without our written approval, the certification should not be partially duplicated. The calibration results are only responsible for calibration conditions of the instrument at the time.
3. 本证书具有唯一性, 带有相同证书编号、按页码顺序的组成页为校准证书。公司宣传的认可信息不代表本校准证书及本实验室校准能力全部通过CNAS认可。  
The certificate is unique, and made up of pages with same certificate number and serial order. Company promotion information does not mean that the certificate and the lab calibration ability are all accredited by CNAS.
4. 对本次校准有异议, 委托方应于收到校准证书之日起十五日内书面向本实验室提出。  
If there is any objection concerning the laboratory, the client should inform the issuing laboratory by the written form within 15 days from the date of the device under test return to the client.
5. 如果被校仪器用于强检范畴, 本证书自动失效。  
If the instrument belong to compulsory test field, the corresponding certificate is automatiacally invalid.
6. 我司是独立的第三方计量校准机构, 并对本证书的内容拥有最终解释权。  
Our company is an independent third-party calibration organization, and reserves final explanation right of the certificate contents.
7. 本次校准的技术依据文件及我司该项目CNAS认可范围如下, 超出或带※的参数项目表示不在CNAS认可范围内:  
Reference documents for the Calibration and the CNAS accreditation range, beyond the scope of the data or parameter with asterisk '※' is not within the accreditation by CNAS:  
JJF(天溯)39-2016 大电流试验器校验仪校准规范 : 电流: (1~5000)A
8. 校准的地点及环境条件(Place and environmental condition in the calibration):  
校准地点: 委托方现场  
Cal. Place: \_\_\_\_\_  
温 度: 22.0 °C 相对湿度: 58 %  
Temperature: \_\_\_\_\_ Relative Humidity: \_\_\_\_\_
9. 校准所用的主要计量标准器具(Main Standards of Measurement Used in the Calibration):

名称	证书编号	机身号	有效期至
Description	Certificate No.	Machine No.	Due date
数字万用表	Z2017J2-C915220	TM3-005	2018-12-27
标准电流互感器	2017F12-10-1123855001	TM31-018	2019-05-07

# 校准结果

## Results of Calibration

证书编号  
Certificate No. Z2018J2-A064544

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1. 外观及工作性能检查:  
(Appearance & Working Performance Check) 符合 (Pass)

2. 交流电流;

示值 <i>Indication Val.</i>	实测值 <i>Measured Val.</i>	示值误差 <i>Indication Error</i>	允 差 <i>MPE</i>	结论 <i>Pass/Fail</i>
A相				
500A	499.5A	+0.10%	±0.5%	P
1000A	999.3A	+0.07%	±0.5%	P
2000A	1998.8A	+0.06%	±0.5%	P
3000A	2998.5A	+0.05%	±0.5%	P
4000A	3998.0A	+0.05%	±0.5%	P
5000A	4997.6A	+0.05%	±0.5%	P
6000A	5997.1A	+0.05%	±0.5%	P※
B相				
500A	499.5A	+0.10%	±0.5%	P
1000A	999.6A	+0.04%	±0.5%	P
2000A	1999.2A	+0.04%	±0.5%	P
3000A	2998.6A	+0.05%	±0.5%	P
4000A	3998.3A	+0.04%	±0.5%	P
5000A	4998.0A	+0.04%	±0.5%	P
6000A	5997.0A	+0.05%	±0.5%	P※
C相				
500A	499.6A	+0.08%	±0.5%	P
1000A	999.3A	+0.07%	±0.5%	P
2000A	1999.0A	+0.05%	±0.5%	P
3000A	2998.5A	+0.05%	±0.5%	P
4000A	3998.1A	+0.05%	±0.5%	P
5000A	4997.5A	+0.05%	±0.5%	P
6000A	5997.0A	+0.05%	±0.5%	P※

说明:本次测量结果的相对扩展不确定度为:

(The Relative Expanded Uncertainty of the Measurement Result Is)

交流电流:  $U_{rel}=0.3\%$   $k=2$

(依据JJF1059.1-2012测量不确定度评定与表示)

(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

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## Calibration certificate



中国认可  
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校准  
CALIBRATION  
CNAS L5138

证书编号  
**Certificate No.** Z20181-A064576

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客户名称  
**Client Name** 绍兴电力电气检测中心有限公司

地 址  
**Address** 绍兴市城南大道1056号7幢101室

仪器名称  
**Description** 温度记录仪

型号/规格  
**Model/Type** SDDL-6000Q (大电流发生器) 制造厂商  
**Manufacturer** 青岛东来电气设备有限公司

出厂编号  
**Serial Number** 18DL0123-1 管理编号  
**Management No.** /

校准日期  
**Calibration Date** 2018 年 01 月 26 日  
**Year Month Day**

建议下次校准日期  
**Due Date** 2019 年 01 月 25 日  
**Year Month Day**



发证单位(专用章)  
**Issued by (stamp)**

批准:  
**Approved by**

颜洲研

核验:  
**Inspected by**

肖岩

校准:  
**Calibrated by**

黄勇

地址: 广东省深圳市龙岗区锦龙大道2号1栋、4栋、6栋  
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Reference documents for the Calibration and the CNAS accreditation range, beyond the scope of the data or parameter with asterisk '※' is not within the accreditation by CNAS:  
JJF1366-2012 温度数据采集仪校准规范: "温度: (-30~300)℃"
8. 校准的地点及环境条件(Place and environmental condition in the calibration):  
校准地点: 本公司实验室【热学室】  
Cal. Place: \_\_\_\_\_  
温 度: 22.0 °C 相对湿度: 58 %  
Temperature: \_\_\_\_\_ Relative Humidity: \_\_\_\_\_ %
9. 校准所用的主要计量标准器具(Main Standards of Measurement Used in the Calibration):

名称	证书编号	机身号	有效期至
Description	Certificate No.	Machine No.	Due date
标准油槽	RZD201800517	TM1-022	2019-01-07
二等标准水银温度计组	175501404~10等	TM1-014	2019-03-05

# 校准结果

## Results of Calibration

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1. 外观及工作性能检查:  
(Appearance & Working Performance Check) 符合 (Pass)

2. 示值误差: (Indication Error )

标准值 Standard Val.	示值 Indication Val.				允差 MPE	结论 Pass/Fail
	CH1	CH2	CH3	CH4		
30 °C	29.5 °C	29.5 °C	29.8 °C	29.6 °C	±2 °C	P
40 °C	49.5 °C	49.5 °C	49.8 °C	49.5 °C	±2 °C	P
50 °C	49.3 °C	49.6 °C	49.7 °C	49.3 °C	±2 °C	P
60 °C	59.2 °C	59.7 °C	59.6 °C	59.4 °C	±2 °C	P
70 °C	69.6 °C	69.5 °C	69.5 °C	69.5 °C	±2 °C	P
80 °C	79.6 °C	79.4 °C	79.4 °C	79.4 °C	±2 °C	P
90 °C	89.5 °C	89.4 °C	89.4 °C	89.3 °C	±2 °C	P
100 °C	99.4 °C	99.4 °C	99.3 °C	99.3 °C	±2 °C	P
110 °C	109.3 °C	109.4 °C	109.3 °C	109.3 °C	±2 °C	P
120 °C	119.3 °C	119.3 °C	119.3 °C	119.3 °C	±2 °C	P
130 °C	129.4 °C	129.3 °C	129.2 °C	129.2 °C	±2 °C	P
140 °C	139.3 °C	139.3 °C	139.2 °C	139.2 °C	±2 °C	P
150 °C	149.2 °C	149.1 °C	149.1 °C	149.1 °C	±2 °C	P
	CH5	CH6	CH7	CH8		
30 °C	30.2 °C	30.2 °C	30.1 °C	30.1 °C	±2 °C	P
40 °C	40.1 °C	40.2 °C	40.1 °C	40.2 °C	±2 °C	P
50 °C	50.2 °C	50.2 °C	50.2 °C	50.3 °C	±2 °C	P
60 °C	60.3 °C	60.2 °C	60.2 °C	60.3 °C	±2 °C	P
70 °C	70.3 °C	70.2 °C	70.2 °C	70.2 °C	±2 °C	P
80 °C	80.3 °C	80.2 °C	80.2 °C	80.2 °C	±2 °C	P
90 °C	90.4 °C	90.4 °C	90.4 °C	90.4 °C	±2 °C	P
100 °C	100.5 °C	100.5 °C	100.5 °C	100.5 °C	±2 °C	P
110 °C	110.5 °C	110.5 °C	110.6 °C	110.5 °C	±2 °C	P
120 °C	120.5 °C	120.6 °C	120.6 °C	120.6 °C	±2 °C	P
130 °C	130.6 °C	130.5 °C	130.6 °C	130.6 °C	±2 °C	P
140 °C	140.6 °C	140.6 °C	140.7 °C	140.7 °C	±2 °C	P
150 °C	150.7 °C	150.6 °C	150.7 °C	150.7 °C	±2 °C	P

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	CH9	CH10	CH11	CH12		
30 °C	29.7 °C	29.7°C	29.8°C	29.8°C	±2 °C	p
40 °C	39.8 °C	39.8°C	39.7°C	39.8°C	±2 °C	p
50 °C	49.7 °C	49.6°C	49.4°C	49.7°C	±2 °C	p
60 °C	59.6 °C	59.5°C	59.6°C	59.7°C	±2 °C	p
70 °C	69.5 °C	69.5°C	69.5°C	69.5°C	±2 °C	p
80 °C	79.5 °C	79.5°C	79.5°C	79.5°C	±2 °C	p
90 °C	89.3 °C	89.3°C	89.3°C	89.5°C	±2 °C	p
100 °C	99.3 °C	99.3°C	99.3°C	99.3°C	±2 °C	p
110 °C	109.2 °C	109.2°C	109.3°C	109.3°C	±2 °C	p
120 °C	119.2 °C	119.2°C	119.3°C	119.3°C	±2 °C	p
130 °C	129.1 °C	129.2°C	129.2°C	129.2°C	±2 °C	p
140 °C	139.0 °C	139.1°C	139.1°C	139.1°C	±2 °C	p
150 °C	149.0 °C	149.1°C	149.2°C	149.0°C	±2 °C	p
	CH13	CH14	CH15	CH16		
30 °C	29.9 °C	29.7°C	29.7°C	29.8°C	±2 °C	P
40 °C	49.9 °C	49.7°C	49.7°C	49.8°C	±2 °C	P
50 °C	49.9 °C	49.7°C	49.6°C	49.7°C	±2 °C	P
60 °C	59.8 °C	59.6°C	59.7°C	59.7°C	±2 °C	P
70 °C	69.8 °C	69.6°C	69.7°C	69.7°C	±2 °C	P
80 °C	79.8 °C	79.6°C	79.6°C	79.6°C	±2 °C	P
90 °C	89.7 °C	89.7°C	89.6°C	89.6°C	±2 °C	P
100 °C	99.9 °C	99.9°C	99.9°C	99.9°C	±2 °C	P
110 °C	109.5 °C	109.5°C	109.5°C	109.5°C	±2 °C	P
120 °C	119.5 °C	119.5°C	119.5°C	119.5°C	±2 °C	P
130 °C	129.6 °C	129.6°C	129.6°C	129.6°C	±2 °C	P
140 °C	139.4 °C	139.4°C	139.4°C	139.4°C	±2 °C	P
150 °C	149.5 °C	149.5°C	149.5°C	149.5°C	±2 °C	P

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	CH17	CH18	CH19	CH20		
30 °C	30.2 °C	30.1°C	30.2°C	30.2°C	±2 °C	P
40 °C	40.2 °C	40.2°C	40.2°C	40.3°C	±2 °C	P
50 °C	50.2 °C	50.2°C	50.2°C	50.2°C	±2 °C	P
60 °C	60.3 °C	60.3°C	60.3°C	60.3°C	±2 °C	P
70 °C	70.2 °C	70.3°C	70.2°C	70.2°C	±2 °C	P
80 °C	80.3 °C	80.4°C	80.3°C	80.3°C	±2 °C	P
90 °C	90.4 °C	90.4°C	90.3°C	90.4°C	±2 °C	P
100 °C	100.4 °C	100.4°C	100.4°C	100.4°C	±2 °C	P
110 °C	110.5 °C	110.5°C	110.4°C	110.3°C	±2 °C	P
120 °C	120.5 °C	120.5°C	120.5°C	120.5°C	±2 °C	P
130 °C	130.6 °C	130.4°C	130.4°C	130.4°C	±2 °C	P
140 °C	140.5 °C	140.5°C	140.5°C	140.5°C	±2 °C	P
150 °C	150.6 °C	150.6°C	150.6°C	150.6°C	±2 °C	P
	CH21	CH22	CH23	CH24		
30 °C	29.8 °C	29.8°C	29.8°C	29.8°C	±2 °C	P
40 °C	39.7 °C	99.7°C	99.8°C	99.6°C	±2 °C	P
50 °C	49.8 °C	49.8°C	49.8°C	49.8°C	±2 °C	P
60 °C	59.7 °C	59.6°C	59.7°C	59.6°C	±2 °C	P
70 °C	69.5 °C	69.5°C	69.6°C	69.6°C	±2 °C	P
80 °C	79.5 °C	79.5°C	79.6°C	79.6°C	±2 °C	P
90 °C	89.6 °C	89.6°C	89.6°C	89.6°C	±2 °C	P
100 °C	99.7 °C	99.7°C	99.7°C	99.7°C	±2 °C	P
110 °C	109.6 °C	109.6°C	109.5°C	109.5°C	±2 °C	P
120 °C	119.6 °C	119.6°C	119.6°C	119.6°C	±2 °C	P
130 °C	129.5 °C	129.6°C	129.6°C	129.6°C	±2 °C	P
140 °C	139.4 °C	139.4°C	139.5°C	139.4°C	±2 °C	P
150 °C	149.3 °C	149.6°C	149.4°C	149.4°C	±2 °C	P



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	CH25	CH26	CH27	CH28		
30 °C	30.1 °C	30.3°C	29.8°C	30.1°C	±2 °C	P
40 °C	40.1 °C	40.2°C	40.2°C	40.1°C	±2 °C	P
50 °C	50.1 °C	50.2°C	50.1°C	50.2°C	±2 °C	P
60 °C	60.2 °C	60.2°C	60.2°C	60.2°C	±2 °C	P
70 °C	70.3 °C	70.3°C	70.3°C	70.3°C	±2 °C	P
80 °C	80.3 °C	80.3°C	80.4°C	80.5°C	±2 °C	P
90 °C	90.4 °C	90.4°C	90.4°C	90.4°C	±2 °C	P
100 °C	100.4 °C	100.4°C	100.4°C	100.4°C	±2 °C	P
110 °C	110.4 °C	110.5°C	110.3°C	110.5°C	±2 °C	P
120 °C	120.4 °C	120.5°C	120.5°C	120.5°C	±2 °C	P
130 °C	130.5 °C	130.6°C	130.6°C	130.7°C	±2 °C	P
140 °C	140.6 °C	140.6°C	140.6°C	140.7°C	±2 °C	P
150 °C	150.6 °C	150.6°C	150.7°C	150.8°C	±2 °C	P
	CH29	CH30	CH31	CH32		
30 °C	29.5 °C	29.8°C	29.6°C	29.8°C	±2 °C	P
40 °C	39.5 °C	39.7°C	39.7°C	39.8°C	±2 °C	P
50 °C	49.6 °C	49.4°C	49.5°C	49.5°C	±2 °C	P
60 °C	59.7 °C	59.6°C	59.7°C	59.5°C	±2 °C	P
70 °C	69.4 °C	69.3°C	69.6°C	69.3°C	±2 °C	P
80 °C	79.4 °C	79.3°C	79.6°C	79.4°C	±2 °C	P
90 °C	89.4 °C	89.3°C	89.5°C	89.4°C	±2 °C	P
100 °C	99.4 °C	99.3°C	99.4°C	99.4°C	±2 °C	P
110 °C	109.4 °C	109.3°C	109.4°C	109.4°C	±2 °C	P
120 °C	119.3 °C	119.3°C	119.3°C	119.3°C	±2 °C	P
130 °C	129.2 °C	129.3°C	129.2°C	129.3°C	±2 °C	P
140 °C	139.2 °C	139.3°C	139.2°C	139.3°C	±2 °C	P
150 °C	149.1 °C	149.2°C	149.1°C	149.3°C	±2 °C	P

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	CH33	CH34	CH35	CH36		
30 °C	30.3 °C	30.5°C	30.4°C	30.5°C	±2 °C	P
40 °C	40.3 °C	40.5°C	40.6°C	40.6°C	±2 °C	P
50 °C	50.3 °C	50.6°C	50.5°C	50.7°C	±2 °C	P
60 °C	60.3 °C	60.5°C	60.5°C	60.7°C	±2 °C	P
70 °C	70.3 °C	70.6°C	70.6°C	70.7°C	±2 °C	P
80 °C	80.4 °C	80.5°C	80.6°C	80.7°C	±2 °C	P
90 °C	90.4 °C	90.5°C	90.6°C	90.6°C	±2 °C	P
100 °C	100.4 °C	100.5°C	100.7°C	100.6°C	±2 °C	P
110 °C	110.5 °C	110.6°C	110.7°C	110.6°C	±2 °C	P
120 °C	120.5 °C	120.6°C	120.8°C	120.7°C	±2 °C	P
130 °C	130.5 °C	130.6°C	130.8°C	130.7°C	±2 °C	P
140 °C	140.6 °C	140.7°C	140.8°C	140.7°C	±2 °C	P
150 °C	150.7 °C	150.8°C	151.0°C	150.8°C	±2 °C	P
	CH37	CH38	CH39	CH40		
30 °C	30.1 °C	29.9°C	29.9°C	30.1°C	±2 °C	P
40 °C	40.1 °C	39.8°C	40.3°C	40.2°C	±2 °C	P
50 °C	50.1 °C	49.9°C	50.2°C	50.2°C	±2 °C	P
60 °C	59.3 °C	59.8°C	60.3°C	59.9°C	±2 °C	P
70 °C	70.3 °C	69.7°C	69.9°C	70.1°C	±2 °C	P
80 °C	80.3 °C	79.8°C	79.9°C	80.2°C	±2 °C	P
90 °C	90.3 °C	89.6°C	90.2°C	90.2°C	±2 °C	P
100 °C	100.3 °C	99.5°C	100.2°C	100.2°C	±2 °C	P
110 °C	110.4 °C	109.5°C	110.3°C	110.2°C	±2 °C	P
120 °C	120.4 °C	119.4°C	120.3°C	120.3°C	±2 °C	P
130 °C	130.5 °C	129.4°C	130.3°C	130.2°C	±2 °C	P
140 °C	140.6 °C	139.5°C	140.4°C	140.3°C	±2 °C	P
150 °C	150.6 °C	149.5°C	150.5°C	150.3°C	±2 °C	P

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	CH41	CH42	CH43	CH44		
30 °C	29.7 °C	29.8°C	29.8°C	29.8°C	±2 °C	P
40 °C	39.9 °C	39.8°C	39.7°C	39.6°C	±2 °C	P
50 °C	49.8 °C	49.8°C	49.6°C	49.6°C	±2 °C	P
60 °C	59.8 °C	59.7°C	59.6°C	59.7°C	±2 °C	P
70 °C	69.7 °C	69.8°C	69.7°C	69.8°C	±2 °C	P
80 °C	79.7 °C	79.5°C	79.8°C	79.5°C	±2 °C	P
90 °C	90.1 °C	89.8°C	90.1°C	89.9°C	±2 °C	P
100 °C	100.2 °C	99.6°C	99.8°C	99.6°C	±2 °C	P
110 °C	109.8 °C	109.5°C	110.2°C	110.3°C	±2 °C	P
120 °C	119.7 °C	119.4°C	120.3°C	120.5°C	±2 °C	P
130 °C	130.2 °C	129.5°C	130.3°C	130.6°C	±2 °C	P
140 °C	140.2 °C	139.4°C	140.5°C	140.5°C	±2 °C	P
150 °C	150.5 °C	149.3°C	150.5°C	150.6°C	±2 °C	P
	CH45	CH46	CH47	CH48		
30 °C	30.1 °C	30.1°C	29.9°C	20.1°C	±2 °C	P
40 °C	40.1 °C	40.1°C	39.9°C	39.8°C	±2 °C	P
50 °C	50.2 °C	50.2°C	50.1°C	50.1°C	±2 °C	P
60 °C	60.3 °C	60.2°C	60.2°C	60.2°C	±2 °C	P
70 °C	70.3 °C	70.3°C	70.3°C	70.3°C	±2 °C	P
80 °C	80.2 °C	80.2°C	80.2°C	80.3°C	±2 °C	P
90 °C	90.2 °C	90.2°C	49.9°C	50.1°C	±2 °C	P
100 °C	100.3 °C	100.3°C	100.3°C	100.3°C	±2 °C	P
110 °C	110.3 °C	110.3°C	100.3°C	100.5°C	±2 °C	P
120 °C	120.3 °C	120.5°C	120.5°C	120.3°C	±2 °C	P
130 °C	130.4 °C	130.6°C	130.3°C	130.4°C	±2 °C	P
140 °C	140.5 °C	140.5°C	140.6°C	140.4°C	±2 °C	P
150 °C	150.5 °C	150.3°C	150.4°C	150.4°C	±2 °C	P

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	CH49	CH50	CH51	CH52		
30 °C	29.9 °C	29.8°C	29.7°C	29.8°C	±2 °C	P
40 °C	39.6 °C	39.6°C	39.6°C	39.6°C	±2 °C	P
50 °C	50.1 °C	50.1°C	50.1°C	50.1°C	±2 °C	P
60 °C	59.9 °C	59.7°C	59.7°C	59.7°C	±2 °C	P
70 °C	69.7 °C	69.8°C	69.8°C	69.8°C	±2 °C	P
80 °C	79.8 °C	79.8°C	79.8°C	79.8°C	±2 °C	P
90 °C	89.6 °C	89.6°C	89.6°C	89.6°C	±2 °C	P
100 °C	99.5 °C	99.6°C	99.5°C	99.6°C	±2 °C	P
110 °C	109.7 °C	109.5°C	109.5°C	109.6°C	±2 °C	P
120 °C	119.5 °C	119.4°C	119.6°C	119.6°C	±2 °C	P
130 °C	129.3 °C	129.7°C	129.5°C	129.6°C	±2 °C	P
140 °C	139.2 °C	139.5°C	139.5°C	139.5°C	±2 °C	P
150 °C	149.2 °C	149.5°C	149.5°C	149.4°C	±2 °C	P
	CH53	CH54	CH55	CH56		
30 °C	30.2 °C	30.3°C	30.2°C	30.2°C	±2 °C	P
40 °C	40.1 °C	40.3°C	40.2°C	40.3°C	±2 °C	P
50 °C	50.3 °C	50.4°C	50.4°C	50.4°C	±2 °C	P
60 °C	60.3 °C	60.4°C	60.3°C	60.4°C	±2 °C	P
70 °C	70.2 °C	70.3°C	70.2°C	70.3°C	±2 °C	P
80 °C	80.4 °C	80.3°C	80.4°C	80.2°C	±2 °C	P
90 °C	90.4 °C	90.4°C	90.3°C	90.5°C	±2 °C	P
100 °C	100.4 °C	100.4°C	100.4°C	100.4°C	±2 °C	P
110 °C	110.4 °C	110.3°C	110.3°C	110.3°C	±2 °C	P
120 °C	120.4 °C	120.5°C	120.3°C	120.4°C	±2 °C	P
130 °C	130.5 °C	130.5°C	130.3°C	130.4°C	±2 °C	P
140 °C	140.5 °C	140.6°C	140.3°C	140.4°C	±2 °C	P
150 °C	150.6 °C	150.5°C	150.4°C	150.5°C	±2 °C	P

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	CH57	CH58	CH59	CH60		
30 °C	30.1 °C	29.8°C	30.1°C	29.9°C	±2 °C	P
40 °C	39.8 °C	39.9°C	39.9°C	39.8°C	±2 °C	P
50 °C	49.8 °C	49.8°C	49.8°C	49.9°C	±2 °C	P
60 °C	60.1 °C	59.8°C	59.8°C	59.8°C	±2 °C	P
70 °C	70.2 °C	69.8°C	70.1°C	70.1°C	±2 °C	P
80 °C	80.3 °C	79.8°C	80.2°C	80.1°C	±2 °C	P
90 °C	90.2 °C	89.7°C	89.9°C	90.1°C	±2 °C	P
100 °C	100.2 °C	100.1°C	100.1°C	100.2°C	±2 °C	P
110 °C	109.9 °C	109.8°C	109.8°C	110.2°C	±2 °C	P
120 °C	120.3 °C	120.1°C	120.2°C	120.3°C	±2 °C	P
130 °C	130.4 °C	130.4°C	130.4°C	130.5°C	±2 °C	P
140 °C	140.3 °C	140.3°C	140.3°C	140.3°C	±2 °C	P
150 °C	150.3 °C	150.3°C	150.2°C	150.3°C	±2 °C	P
	CH61	CH62	CH63	CH64		
30 °C	30.2 °C	30.2°C	30.2°C	30.1°C	±2 °C	P
40 °C	39.8 °C	39.8°C	39.8°C	39.9°C	±2 °C	P
50 °C	50.1 °C	50.2°C	50.2°C	50.1°C	±2 °C	P
60 °C	60.3 °C	60.2°C	60.2°C	59.9°C	±2 °C	P
70 °C	69.8 °C	70.2°C	70.2°C	69.8°C	±2 °C	P
80 °C	80.1 °C	80.2°C	80.2°C	80.0°C	±2 °C	P
90 °C	89.8 °C	90.1°C	90.3°C	90.3°C	±2 °C	P
100 °C	100.2 °C	100.2°C	100.3°C	100.3°C	±2 °C	P
110 °C	110.1 °C	110.2°C	110.3°C	110.3°C	±2 °C	P
120 °C	119.8 °C	119.7°C	119.8°C	119.9°C	±2 °C	P
130 °C	130.2 °C	130.2°C	119.8°C	119.8°C	±2 °C	P
140 °C	140.1 °C	140.2°C	140.2°C	140.2°C	±2 °C	P
150 °C	150.3 °C	150.3°C	150.3°C	150.3°C	±2 °C	P

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	CH65	CH66	CH67	CH68		
30 °C	29.9 °C	29.8°C	29.8°C	29.7°C	±2 °C	P
40 °C	39.8 °C	39.8°C	39.8°C	39.8°C	±2 °C	P
50 °C	49.7 °C	49.7°C	49.8°C	49.7°C	±2 °C	P
60 °C	60.1 °C	59.9°C	59.9°C	60.1°C	±2 °C	P
70 °C	70.2 °C	70.2°C	70.2°C	69.8°C	±2 °C	P
80 °C	79.8 °C	79.8°C	80.1°C	79.7°C	±2 °C	P
90 °C	90.2 °C	90.1°C	90.2°C	90.0°C	±2 °C	P
100 °C	99.8 °C	99.8°C	99.9°C	99.8°C	±2 °C	P
110 °C	110.1 °C	110.3°C	110.1°C	110.3°C	±2 °C	P
120 °C	120.3 °C	120.1°C	120.2°C	119.9°C	±2 °C	P
130 °C	130.3 °C	130.3°C	130.2°C	130.3°C	±2 °C	P
140 °C	140.3 °C	140.4°C	140.3°C	140.2°C	±2 °C	P
150 °C	150.1 °C	150.5°C	150.3°C	150.3°C	±2 °C	P
	CH69	MCH70	CH71	CH72		
30 °C	29.9 °C	29.8°C	29.9°C	30.1°C	±2 °C	P
40 °C	39.9 °C	39.8°C	39.9°C	40.1°C	±2 °C	P
50 °C	49.8 °C	49.8°C	49.9°C	50.2°C	±2 °C	P
60 °C	59.8 °C	59.8°C	59.8°C	60.2°C	±2 °C	P
70 °C	69.8 °C	69.8°C	69.8°C	70.2°C	±2 °C	P
80 °C	80.2 °C	80.1°C	80.1°C	80.3°C	±2 °C	P
90 °C	89.8 °C	89.9°C	89.9°C	90.2°C	±2 °C	P
100 °C	99.8 °C	99.7°C	99.7°C	99.9°C	±2 °C	P
110 °C	109.8 °C	109.8°C	109.7°C	110.2°C	±2 °C	P
120 °C	120.1 °C	120.2°C	120.2°C	120.3°C	±2 °C	P
130 °C	130.2 °C	130.3°C	130.3°C	130.4°C	±2 °C	P
140 °C	140.2 °C	140.3°C	140.3°C	140.3°C	±2 °C	P
150 °C	150.4 °C	150.4°C	150.2°C	150.4°C	±2 °C	P

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	CH73	CH74	CH75	CH76		
30 °C	29.9 °C	30.1°C	29.8°C	30.1°C	±2 °C	P
40 °C	39.9 °C	40.1°C	40.1°C	40.1°C	±2 °C	P
50 °C	49.9 °C	49.7°C	49.8°C	49.9°C	±2 °C	P
60 °C	59.9 °C	59.6°C	59.7°C	59.8°C	±2 °C	P
70 °C	69.8 °C	69.9°C	69.8°C	69.9°C	±2 °C	P
80 °C	79.8 °C	80.1°C	80.1°C	79.8°C	±2 °C	P
90 °C	89.6 °C	90.2°C	90.2°C	89.8°C	±2 °C	P
100 °C	99.5 °C	100.3°C	100.3°C	99.8°C	±2 °C	P
110 °C	109.5 °C	110.2°C	110.3°C	110.2°C	±2 °C	P
120 °C	119.3 °C	120.0°C	119.8°C	120.2°C	±2 °C	P
130 °C	129.5 °C	130.2°C	129.6°C	130.3°C	±2 °C	P
140 °C	139.4 °C	140.3°C	140.2°C	149.8°C	±2 °C	P
150 °C	149.3 °C	150.5°C	150.2°C	150.2°C	±2 °C	P
	CH77	CH78	CH79	CH80		
30 °C	29.8 °C	29.8°C	29.9°C	29.8°C	±2 °C	P
40 °C	39.8 °C	39.7°C	39.9°C	39.8°C	±2 °C	P
50 °C	49.7 °C	49.7°C	49.8°C	49.7°C	±2 °C	P
60 °C	59.8 °C	59.7°C	59.9°C	59.8°C	±2 °C	P
70 °C	70.2 °C	69.8°C	69.9°C	69.8°C	±2 °C	P
80 °C	79.9 °C	80.1°C	80.2°C	80.1°C	±2 °C	P
90 °C	89.8 °C	90.2°C	90.2°C	90.1°C	±2 °C	P
100 °C	99.8 °C	99.8°C	100.2°C	99.8°C	±2 °C	P
110 °C	109.8 °C	109.8°C	110.1°C	110.2°C	±2 °C	P
120 °C	119.8 °C	119.7°C	119.8°C	119.8°C	±2 °C	P
130 °C	130.2 °C	119.8°C	130.2°C	130.2°C	±2 °C	P
140 °C	140.1 °C	140.1°C	140.3°C	140.3°C	±2 °C	P
150 °C	150.2 °C	149.8°C	150.2°C	150.3°C	±2 °C	P

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	CH81	CH82	CH83	CH84		
30 °C	30.1 °C	29.8°C	29.9°C	29.8°C	±2 °C	P
40 °C	39.9 °C	39.9°C	39.7°C	39.7°C	±2 °C	P
50 °C	49.7 °C	49.8°C	49.8°C	49.8°C	±2 °C	P
60 °C	59.6 °C	59.8°C	59.7°C	59.8°C	±2 °C	P
70 °C	69.8 °C	69.9°C	69.8°C	69.8°C	±2 °C	P
80 °C	80.2 °C	79.9°C	79.9°C	79.9°C	±2 °C	P
90 °C	90.2 °C	90.1°C	90.1°C	90.1°C	±2 °C	P
100 °C	99.8 °C	99.9°C	99.8°C	99.9°C	±2 °C	P
110 °C	109.8 °C	109.7°C	109.7°C	109.6°C	±2 °C	P
120 °C	120.3 °C	120.3°C	120.3°C	120.2°C	±2 °C	P
130 °C	130.4 °C	130.2°C	130.2°C	130.2°C	±2 °C	P
140 °C	140.9 °C	140.9°C	140.9°C	140.9°C	±2 °C	P
150 °C	150.5 °C	150.5°C	150.5°C	150.5°C	±2 °C	P
	CH85	CH86	CH87	CH88		
30 °C	29.8 °C	29.7°C	30.1°C	29.9°C	±2 °C	P
40 °C	39.2 °C	39.8°C	40.1°C	40.2°C	±2 °C	P
50 °C	50.2 °C	50.1°C	50.1°C	50.2°C	±2 °C	P
60 °C	60.2 °C	60.3°C	60.2°C	60.2°C	±2 °C	P
70 °C	70.3 °C	70.3°C	70.4°C	70.3°C	±2 °C	P
80 °C	80.1 °C	80.3°C	80.4°C	80.3°C	±2 °C	P
90 °C	90.1 °C	89.9°C	90.5°C	90.3°C	±2 °C	P
100 °C	100.2 °C	99.6°C	99.8°C	100.3°C	±2 °C	P
110 °C	109.8 °C	110.1°C	110.1°C	109.9°C	±2 °C	P
120 °C	119.6 °C	119.7°C	119.8°C	120.1°C	±2 °C	P
130 °C	130.3 °C	130.2°C	130.3°C	130.2°C	±2 °C	P
140 °C	140.3 °C	140.2°C	140.3°C	140.3°C	±2 °C	P
150 °C	150.5 °C	150.1°C	150.3°C	150.2°C	±2 °C	P



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	CH89	CH90				
30 °C	29.8 °C	29.9°C	--	--	±2 °C	P
40 °C	40.1 °C	39.8°C	--	--	±2 °C	P
50 °C	49.9 °C	49.8°C	--	--	±2 °C	P
60 °C	59.8 °C	59.7°C	--	--	±2 °C	P
70 °C	69.8 °C	69.8°C	--	--	±2 °C	P
80 °C	79.8 °C	79.6°C	--	--	±2 °C	P
90 °C	89.7 °C	89.7°C	--	--	±2 °C	P
100 °C	100.2 °C	99.9°C	--	--	±2 °C	P
110 °C	110.3 °C	110.2°C	--	--	±2 °C	P
120 °C	120.2 °C	120.2°C	--	--	±2 °C	P
130 °C	130.3 °C	130.3°C	--	--	±2 °C	P
140 °C	140.5 °C	140.3°C	--	--	±2 °C	P
150 °C	150.5 °C	150.4°C	--	--	±2 °C	P

说明:本次测量结果的扩展不确定度为:

(The Absolute Expanded Uncertainty of the Measurement Result Is)

$U=0.6^{\circ}\text{C}$   $k=2$

(依据JJF1059.1-2012测量不确定度评定与表示)

(According to JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)