



深圳中电计量测试技术有限公司

Shenzhen Zhongdian Metrology and Testing Technology Co., Ltd

校准证书

CALIBRATION CERTIFICATE



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证书编号

Certificate No.

ZD202206180918

委托方

Client

上海仰邦科技股份有限公司

委托方地址

Address

上海市徐汇区钦州北路1199号88幢7楼

仪器名称

Description

臭氧传感器

型号规格

Model/Type

BX-O3

制造厂

Manufacturer

上海仰邦科技股份有限公司

出厂编号

Serial No.

CGQ-2021082111

管理编号

Asset No.

/

样品接收日期

Date of Receipt

2022-06-18

校准日期

Date of Calibration

2022-06-18

批准人 :

Approved Signatory

王小云

审核 :

Inspected by

梁金学

校准 :

Tested by

郭成



地址 : 广东省深圳市宝安区福永街道白石厦社区东区新开发区4栋301

Add : Room 301, Building 4, New Development Area, East Zone, Baishixia Community, Fuyong Sub-District, Bao'an District, Shenzhen, Guangdong, China

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校准说明

DIRECTIONS OF CALIBRATION

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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。

(All data issued by ZD Test are traced to National Primary Standards.)

2.本结果仅对当次被测样品有效,如有疑问请在15个工作日反馈。

(The results is ONLY valid for the tested sample,please feedback to us within 15 working days if you have any question.)

3.本证书编号具有唯一性,若替换证书,自发出后原证书即可作废。

(Each certificate has a unique number.If replaced the certificate,the original certificate will be invalid once the new certificate number is issued.)

4.证书中如有最大允许误差、判定结果,仅供参考,其中“P”代表“Pass”,“F”代表“Fail”。

(In the datasheet,MPE & determination is only for reference,"P"represents"Pass"and"F"represents"Fail".)

5.本次校准的技术依据及获认可的能力范围,超出范围的内容未被认可。

(Reference documents and Accredited Scopes for Calibration,Beyond the Scope has not been accredited.):

参照JJG 1077-2012《臭氧气体分析仪检定规程》

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

名称/型号 Description/Model	编号 Serial No.	证书号 Certificate No.	有效期至 Due Date	技术特征 Technique Character
臭氧标准气体发生装置	135	21881213	2022-10-13	(0.0~1.0) $\mu\text{mol/mol}$ MPE: $\pm 2.0\%$

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

地点 Place	本公司实验室	温度 Temperature	22.4 $^{\circ}\text{C}$	相对湿度 Relative Humidity	59 %
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8.建议复校时间间隔:

12 个月, 送检单位可根据实际情况自主决定。

Suggested calibration interval is

12 month or it can be altered depending on the actual usage of the user.



校准结果

Result of Calibration

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1、外观及各部件相互作用(Appearance & Interaction):

正常 (Normal)

2、报警功能及报警动作值(Alarm and alarm value):

报警功能 (Alarm function)	报警动作值 (Alarm action value)	结论 (Conclusion)
(Normal)	(ppm)	(Pass/Fail)
正常	2.9	P

3、仪器示值误差(Indication erro):

标气浓度 (Standard gas concentration)	示值误差 (Error)	技术指标 (Limit)	结论 (Conclusion)
(ppm)	(%FS)	(%FS)	(Pass/Fail)
2.1	1.0		P
4.9	1.0	±15	P
7.8	-2.5		P

4、重复性(Repeatability):

标气浓度 (Standard gas concentration)	重复性 (Repeatability)	技术指标 (Limit)	结论 (Conclusion)
(ppm)	(%)	(%)	(Pass/Fail)
4.9	0.6	≤2	P

备注:

Notes:

关于测量结果不确定度的说明:

(Directions of measurement uncertainty in the calibration)

1.依据: JJF1059.1-2012 测量不确定度评定与表示;

(Reference Document: JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

2.本次测量结果的扩展不确定度(The expanded uncertainty of the measurement): $U_{rel}=2.1\%$, $k=2$

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