



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.

ZD202206180913

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

二氧化碳传感器

型号规格

Model/Type

BX-CO2

制造厂

Manufacturer

上海仰邦科技股份有限公司

出厂编号

Serial No.

CGQ-2021054272

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

梁金学



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 635-2011《一氧化碳、二氧化碳红外气体分析器》

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
氮中二氧化碳标准气体3#	15646	GBW09401	2022-10-05	$U_{rel}=1\%, k=2$
氮中二氧化碳标准气体1#	15392	GBW(E)060957	2022-09-28	$U_{rel}=1\%, k=2$
氮中二氧化碳标准气体2#	15392	GBW(E)060957	2022-10-04	$U_{rel}=1\%, k=2$
秒表	MQ/2068941-1	213104266	2022-10-13	时间间隔: $U=0.01s, k=2 (1\sim3600)s$

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 °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、仪器示值误差(Indication error):

标准值 (Standard value) (ppm)	均测值 (Mean value) (ppm)	示值误差 (Error) (%FS)	技术指标 (Limit)	结论 (Conclusion) (Pass/Fail)
502	520	0.4	± (40ppm+3%FS)	P
2010	2052	0.8		P
5000	5060	1.2		P

3、重复性(Repeatability):

标气浓度 (Standard gas concentration) (ppm)	重复性 (Repeatability) (%)	技术指标 (Limit) (%)	结论 (Conclusion) (Pass/Fail)
2010	0.20	≤1.0	P

4、响应时间 (Response time):

标气浓度 (Standard gas concentration) (ppm)	响应时间 (Response time) (s)	技术指标 (Limit) (s)	结论 (Conclusion) (Pass/Fail)
2010	30.30	≤60	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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