



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



证书编号

Certificate No.

ZD202206180924

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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

氢气传感器

型号规格

Model/Type

BX-H2

制造厂

Manufacturer

上海仰邦科技股份有限公司

出厂编号

Serial No.

CGQ-2022042024

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

电话 ( Tel ) : 0755-29888158

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传真 ( Fax ) : 0755-29796107



## 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.):

GB12358-2006《作业场所环境气体检测报警仪通用技术要求》

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
氮气中氢气标准物质	197156	GBW(E)061836	2023-05-18	$U_{rel}=2\%$ , $k=2$

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):

校准项目 (Alignment Project)	校准结果(Calibration result)
外观及结构 ( Appearance and structure )	符合要求 ( Pass )
标志和标识 ( Logo and logo )	符合要求 ( Pass )
通电检查 ( Electricity Inspection )	符合要求 ( Pass )

#### 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)	L ( ppm )	(Pass/Fail)
正常	10	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)
101	0.8	±5	P
401	0.9		P
605	1.1		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)
401	1.3	≤2	P

#### 5、响应时间 ( Response time):

标气浓度 (Standard gas concentration)	平均值 (Average value)	技术指标 (Limit)	结论 ( Conclusion )
( ppm )	(s)	(s)	(Pass/Fail)
401	12.08	≤30	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):  $U_{rel}=1.8\%$ ,  $k=2$

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