



校准证书

CALIBRATION CERTIFICATE

证书编号 HYQ202337614
Certificate No.

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委托方 优利德科技(中国)股份有限公司
Client

委托方联络信息 广东省东莞市松山湖园区工业北一路6号
Contact Information

计量器具名称 二氧化氮检测报警仪
Description

型号/规格 UT334-NO2
Model/Type

制造厂 优利德科技(中国)股份有限公司
Manufacturer

出厂编号 设备管理编号 自编3#-NO2
Serial No. Equipment No.

接收日期 2023 年 08 月 30 日
Date of Receipt Y M D

结果 见校准结果
Results Shown in the results of calibration

校准日期 2023 年 09 月 07 日
Date of Calibration Y M D

批准人 许俊斌
Approved Signatory

核 验 黄梓宸
Reviewed by

校 准 谢昭群
Calibrated by

证书专用章
Stamp



扫一扫查真伪



说 明

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DIRECTIONS

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1. 本中心是国家市场监督管理总局在华南地区设立的国家法定计量检定机构, 本中心的质量管理体系符合 ISO/IEC 17025:2017 标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation. The quality system is in accordance with ISO/IEC 17025:2017.

2. 本中心所出具的数据均可溯源至国家计量基准和/或国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and/or International System of Units (SI).

3. 校准地点、环境条件:

Place and environmental conditions of the calibration:

地点 本院光学理化实验室

Place (Optics & Phy.-Chemistry Lab.)

温度 (24~28) °C

Temperature

相对湿度 (45~55) %

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

FFH2126-2021 二氧化氮气体检测报警器校准方法 C. M. for Nitrogen Dioxide Gas Detectors

5. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号规格/测量范围 Name of Equipment /Model/Type/Range	编号 Serial No.	证书号/有效期/溯源单位 Certificate No./Due Date /Traceability to	计量特性 Metrological Characteristic
气体混合装置 Gas Commix Device /4000/0 L~10 L	3163	HYQ202370202 /2024-02-08 /本中心	$U=0.8\%(k=2)$
氮中二氧化氮气体标准物质 NO ₂ -N ₂ /50.0×10 ⁻⁶ mol/mol/50.0×10 ⁻⁶ mol/mol	820221216137	GBW(E)062665 /2023-12-18 /四川中测标物科技有限公 司	$U_{rel}=2\%, k=2$

注: 1. 本证书校准结果只与受校准仪器有关。The results relate only to the items calibrated.

Note: 2. 未经本机构书面批准, 不得部分复制此证书。This certificate shall not be reproduced except in full, without the written approval of our laboratory.

3. “委托方”、“委托方联络信息”由委托方提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注, 委托方对上面内容如有异议, 须在收到证书后二十个工作日内提出。

The information Client and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items. Client shall submit any objection within 20 working days after receiving the certificate for the information above.

4. 本次校准日期视为发布日期。The calibration date is the date of issue of the certificate.



校准结果

RESULTS OF CALIBRATION

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原始记录号 HYQ202337614
Record No.

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1. 示值误差(Error of Indication): 见表1 (shown in table 1)
[允差(MPE): $\pm 5\%FS$]

表1 (Table 1)

检测器及测量范围 Detector and range	标准值 Reference value	仪器示值 Measure value	示值误差 Error of indication
二氧化氮 (0.1~20) $\mu\text{mol/mol}$	4.0 $\mu\text{mol/mol}$	3.1 $\mu\text{mol/mol}$	-4.5 %FS
	10.0 $\mu\text{mol/mol}$	10.1 $\mu\text{mol/mol}$	+0.5 %FS
	16.0 $\mu\text{mol/mol}$	16.0 $\mu\text{mol/mol}$	0.0 %FS

2. 报警设定值(Alarm setting value)

5.0 $\mu\text{mol/mol}$

3. 报警功能(Alarm function):

正常(Functional)

说明(Note):

1. 浓度测量结果的不确定度(The uncertainty of concentration measuring results):

二氧化氮: $U=2.0\%FS$ ($k=2$)

2. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定, 由合成标准不确定度乘以包含概率约为95%时对应的包含因子 k 得到。

The expanded uncertainty given in this certificate is evaluated according to JJF 1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

3. 本仪器经过调校, 上述结果为调校后所得结果。

This instrument has been calibrated, the results above are attained after calibration.

4. 校准项目依据客户要求。

The calibration items are referred to the requirements of customer.

5. 按照所依据技术文件的规定, 建议复校时间间隔不超过1年。更换重要部件、维修或对仪器性能有怀疑时, 应及时校准。

According to the demand of reference document, next calibration is proposed within 1 year.

In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.

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