



华南国家计量测试中心
广东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY



中国认可
国际互认
校准
CALIBRATION
CNAS L0730

校准证书

CALIBRATION CERTIFICATE

证书编号 CDP202500154
Certificate No.

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客户名称 优利德科技(中国)股份有限公司
Name of the Customer

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 倾角仪
Description

型号/规格 LM320E
Model/Type

制造厂 UNI-T
Manufacturer

出厂编号 设备管理编号 LM320E-1
Serial No. Equipment No.

接收日期 2024 年 12 月 26 日
Receipt on Y M D

结论 见校准结果
Conclusion Shown in the results of calibration

校准日期 2025 年 01 月 08 日
Calibration on Y M D

发布日期 2025 年 01 月 08 日
Issue on Y M D

批准 张勇
Authorized by

核验 黄万钧
Reviewed by

校准 骆彬威
Calibrated by

证书专用章
Stamp



扫一扫查真伪

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说 明

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Certificate No.

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:

Location and environmental conditions of the calibration:

地点 本中心长度实验室

温度 (20.2~20.3) °C

相对湿度 (40±5) %

Location (Length Geometric Lab.)

Temperature

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJF1915-2021 倾角仪校准规范 C. S. for Clinometers

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

编号

证书号/有效期/溯源单位

计量特性

Name of Equipment

Serial No.

Certificate No./Due Date

Metrological

/Model/Type/Range

/Traceability to

Characteristic

数显倾角仪自动校准装置

NNQJZ1005

CDP202405509

允差: ±2.0"

Automatic calibration device

/2025-07-31

MPE: ±2.0"

for digital display

/本中心

inclinometer

/QJYJZ-1A/(0~360)°

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. “客户名称”、“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 Name of the Customer 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.



校准结果 RESULTS OF CALIBRATION

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1 外观及各部分相互作用: 符合要求

Appearance and functions: Pass

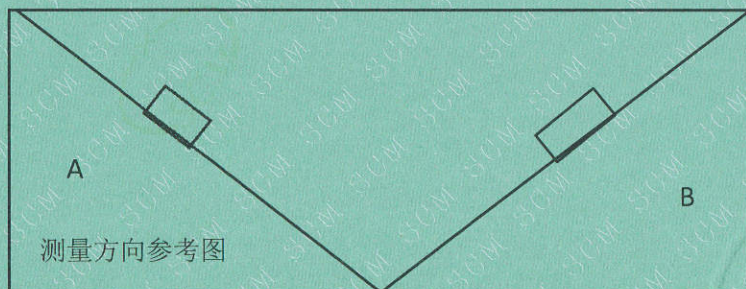
2 仪器实测结果:

Measured value of instrument

标准值	仪器示值	
	A	B
0°	0.00°	0.00°
15.5°	15.65°	15.35°
30°	29.95°	29.90°
45°	44.90°	44.90°
60°	59.95°	59.85°
75°	75.10°	75.00°
90°	89.90°	89.90°

3 测角示值重复性: 0.04°

Repeatability of angle



说明/Note:

1 校准活动中对测量结果有影响的条件:

Conditions under which the calibrations were made that have an influence on the measurement results:

温度 (Temperature): (20.2~20.3) °C

平衡温度时间 (Equilibrium Temperature Time): ≥2h



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2 角度测量结果的扩展不确定度: $U=0.05^\circ$

Expanded uncertainty related to angle

包含因子: $k=2$

Coverage factor

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 in accordance with “JJF1059.1-2012 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 该仪器的溯源日期为本证书的“校准日期”, 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。

The traceability date of this instrument is the "Calibration Date" on this certificate. 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.