



广州高铁计量检测股份有限公司

Guangzhou Gaotie Metrology and Test Co., Ltd.



中国认可
国际互认
校准
CALIBRATION
CNAS L2203

证书编号:
Certificate No.



GTC01819006012-001

校准证书

CALIBRATION CERTIFICATE



委 托 方
Client

Hitachi Soe Electric & Machinery Co. Ltd.

地 址
Address

Building No. 1, Aung Chan Thar Housing Estate, East Shwe Gondine Road, Bahan Township, Yangon, Myanmar

样 品 名 称
Description

DC Winding Resistance Tester

型 号 / 规 格
Model/Type

KRI9310

编 号
Serial No.

14932185

制 造 商
Manufacturer

Baoding Kingrun Technology Co, Ltd

接 收 日 期
Date of Receipt

2019 - 09 - 02



批准人
Approved by

吕文龙

吕文龙

审核人
Checked by

湛耀宗

湛耀宗

校准员
Calibrated by

王可轩

王可轩

校准日期
Date of Calibration

2019 - 09 - 03

建议再校日期
Date of next Calibration

2020 - 09 - 02



扫一扫查真伪

地址: 广州市番禺区大石街南大公路礼村鸿图工业园A1幢1、2楼

Add: 1-2F, Building A1, Hongtu Industrial Park, Licun Road, Nanda Road, Dashi Street, Panyu District, Guangzhou, Guangdong, China

电话 (Tel): 020-39932518

传真 (Fax): 020-34797200

邮编 (Post Code): 511430

公司网址 (Web): <http://www.gaotie.com>

微信公众号 (WeChat): 广州高铁计量



说 明

DIRECTIONS

证书编号:
Certificate No.



GTC01819006012-001

第 2 页 共 3 页
Page of

1. 本公司质量管理体系符合ISO/IEC 17025: 2005 标准的要求。
The quality system is in accordance with ISO/IEC 17025:2005.
2. 本公司所出具的数据均可溯源至国家计量基准和国际单位制(SI)。
All data issued by this laboratory are traceable to national primary standards and SI Units.
3. 本次校准的技术依据:

Reference documents for the Calibration:

JJG 1052-2009 《回路电阻测试仪、直阻仪检定规程》
JJG 1052-2009 《Verification Regulation of Loop Resistance Tester and DC Resistance Meters》

4. 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 Name of Equipment / Model	编 号 Serial No.	证书编号/有效期 Certificate No. /Due date	计量特性 Metrological/Characteristic
模拟大功率直流标准电阻器 MZB-600 Analog High Power DC Standard Resistor	GT/SB-D222	DYL201960330/ 2020-04-17	电阻: $U_{rel}=0.015\%$ 电流: $U_{rel}=0.02\% (k=2)$
直流电阻器 ZX54型 Direct Current Resistor	GT/SB-D028	DG201900026/ 2020-01-23	0.01级

校准地点: 本公司电磁室 Electromagnetic Lab
Place of the Calibration:

校准环境条件: 温度: 23 °C 相对湿度: 56 %RH
Environmental of the Calibration Temperature Relative humidity

注:

1. 本证书校准结果只与受校准仪器有关。
2. 未经本公司书面批准, 不得部分复制此证书。
3. 此证书无本公司盖章无效。
4. 证书与原始记录同号。

Note: 1.The results relate only to the items calibrated.

- 2.This certificate shall not be reproduced except to full, without the written approval of our laboratory.
- 3.This certificated shall not be valid without stamp of our institute.
- 4.This certificate No. is according to the record No.



证书编号:

Certificate No.



GTC01819006012-001

第 3 页 共 3 页

Page of

校准结果

RESULTS OF CALIBRATION

1.Appearance and general examination:Passed

2.Resistance indication error calibration:

Standard value	Indication value	Error	Permissible error	Result
(mΩ)	(mΩ)	(mΩ)	(mΩ)	(Pass/Fail)
1	1.0010	0.0010	± 0.0020	P
5	5.001	0.001	± 0.010	P
10	10.004	0.004	± 0.020	P
50	50.00	0.00	± 0.10	P
100	100.00	0.00	± 0.20	P
500	499.9	-0.1	± 1.0	P
1000	999.9	-0.1	± 2.0	P
(Ω)	(Ω)	(Ω)	(Ω)	(Pass/Fail)
5	5.006	0.006	± 0.010	P
10	10.005	0.005	± 0.020	P
50	50.00	0.00	± 0.10	P
100	100.02	0.02	± 0.20	P
500	500.1	0.1	± 1.0	P
(kΩ)	(kΩ)	(kΩ)	(kΩ)	(Pass/Fail)
1	1.0002	0.0002	± 0.0020	P
5	5.002	0.002	± 0.010	P
10	10.005	0.005	± 0.020	P

3.Current indication error calibration:

Standard value	Indication value	Error	Permissible error	Result
(A)	(A)	(A)	(A)	(Pass/Fail)
10.1	10.14	-0.04	± 0.20	P
3.01	2.999	0.011	± 0.060	P
1.00	0.997	0.003	± 0.020	P
(mA)	(mA)	(mA)	(mA)	(Pass/Fail)
301	301.7	-0.7	± 6.0	P
100	101.5	-1.5	± 2.0	P

Conclusion: It meets the technical requirements of the calibrated projects.

Remarks: 1.The extended uncertainty in this report is multiplied by the standard uncertainty by the inclusion factor k when the inclusion probability is about 95%

OHM: $U_{rel}=0.12\%$

I: $U_{rel}=0.3\%$ ($k=2$)

2.Based on JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement.

(Blank below)