

CALIBRATION CERTIFICATE

My Metrology Laboratory

Certificate No:

CAL-001001

Status: SIGNED

Issued: 2026/04/16

CERTIFICATE NUMBER CAL-001001	JOB NUMBER JOB-01001	OVERALL RESULT PASS
DATE OF RECEIPT 2026/04/14	DATE OF CALIBRATION 2026/04/15	DATE OF ISSUE 2026/04/16

INSTRUMENT DETAILS

DESCRIPTION
6.5 Digit Digital Multimeter

MANUFACTURER
Keysight

MODEL / TYPE
34465A

SERIAL NUMBER
MY12345678

ASSET TAG / ID
DMM-001

DISCIPLINE
Electrical

LOCATION
Lab 1 - Bench A

CUSTOMER

CUSTOMER NAME
ABC Manufacturing (Pty) Ltd

ADDRESS
—

METROLOGICAL TRACEABILITY

REFERENCE STANDARD
STD-NMI-001

NMI SOURCE
NMISA

STANDARD CERTIFICATE NO.
NMISA-2025-DCV-0042

Traceability Statement: The measurements reported in this certificate are traceable to the International System of Units (SI) through NMISA, via an unbroken chain of calibrations, each contributing to the measurement uncertainty. (ISO/IEC 17025:2017 cl. 6.5)

ENVIRONMENTAL CONDITIONS

TEMPERATURE
23.1 °C

RELATIVE HUMIDITY
48.2 %RH

ATMOSPHERIC PRESSURE
1013.5 hPa

CALIBRATION METHOD

PROCEDURE CODE
SOP-EL-001

PROCEDURE TITLE
DC Voltage Calibration Procedure

MEASUREMENT RESULTS

Phase	Nominal	Unit	Reading	Error	Tolerance	Result
AS_FOUND	0	V	0.000012	1.200e-5	±0.0001	PASS
AS_FOUND	1	V	0.999998	-2.000e-6	±0.0001	PASS
AS_FOUND	5	V	4.999997	-3.000e-6	±0.0002	PASS
AS_FOUND	10	V	9.999995	-5.000e-6	±0.0003	PASS
AS_LEFT	0	V	0.00001	1.000e-5	±0.0001	PASS
AS_LEFT	10	V	9.999997	-3.000e-6	±0.0003	PASS

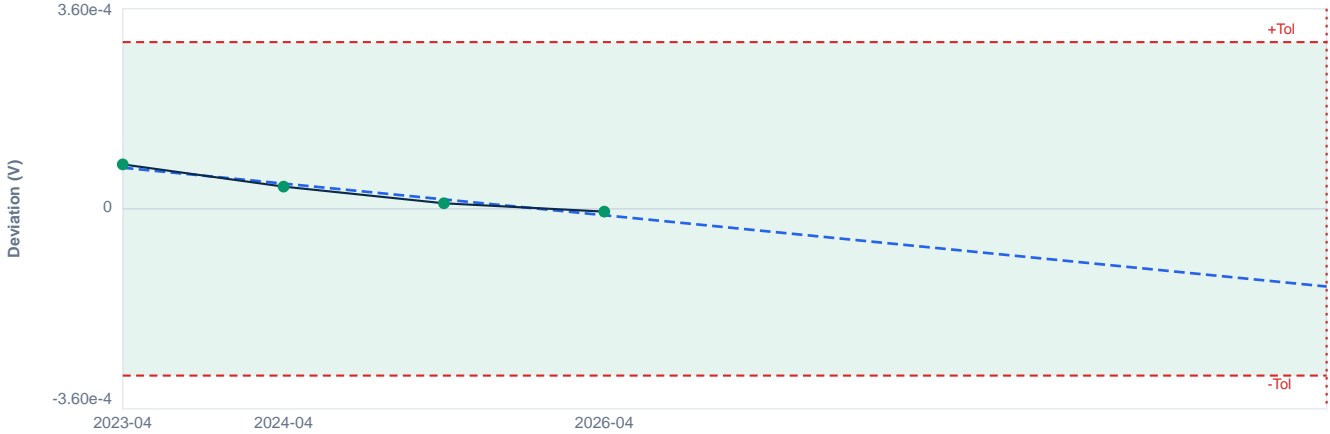
MEASUREMENT UNCERTAINTY

Component	Type	Distribution	Value	Std. Uncertainty
Standard CMC (Voltage Reference)	Type B	Normal	0.00005	2.500e-5
Repeatability	Type A	Normal	0.000008	8.000e-6
Resolution	Type B	Rectangular	0.00001	6.000e-6

Uncertainty Statement:

The expanded uncertainty of measurement is stated as the standard uncertainty multiplied by the coverage factor $k = 2$, providing a level of confidence of approximately 95% (JCGM 100:2008 GUM).

CALIBRATION HISTORY & DRIFT ANALYSIS



DRIFT RATE -2.85e-5 V/yr (-2.8 ppm/yr)	TREND Decreasing	MEAN DEV. 3.13e-5 V	STD DEV. 3.75e-5
MAX DEV 8.00e-5	FIT R ² 0.963	EST. TO LIMIT ~121 mo	HISTORY 4 cal / 3.0 yr

Figure: Instrument drift history relative to tolerance limits at 10.000 V (AS-FOUND). Trend line by least-squares regression.

OVERALL CALIBRATION RESULT:

PASS

AUTHORISED SIGNATORY

Dr. John Smith

Technical Signatory — My Metrology Laboratory

Date: 2026/04/16

Advanced Electronic Signature Applied

Verification: ba66e7f3d1d31f72cadded6c051b03ab059f7a90ee8e4bb4

TERMS AND CONDITIONS

1. This certificate relates only to the item(s) submitted for calibration.
2. The results relate exclusively to the item(s) calibrated.
3. This certificate shall not be reproduced except in full.
4. Calibration results are valid at the time of calibration under the stated environmental conditions.
5. The laboratory accepts no responsibility for subsequent use or misuse of the calibrated item.
6. Uncertainty of measurement is reported at approximately 95% confidence level ($k=2$).
7. All work is performed in accordance with ISO/IEC 17025:2017 and ISO/IEC 17025:2017 requirements.