Certificate of Calibration

Certificate Number: CAL-2025-00123

Date of Calibration: January 10, 2025 Next Due Date: January 10, 2026

Equipment Details:

Equipment Name: Digital Multimeter Model: DM-550 Serial Number: 12345-67890 Manufacturer: Precision Instruments Co. Owner: ABC Manufacturing Location: Workshop #2, ABC Facility

Calibration Standards Used:

1. Reference Multimeter: RM-1000
    - Serial Number: 98765-43210
    - Calibration Certificate: CAL-2024-78901
    - Traceability: National Metrology Institute (NMI)
2. Precision Voltage Source: PVS-200
    - Serial Number: 223344-556677
    - Calibration Certificate: CAL-2024-56789
    - Traceability: International Bureau of Weights and Measures (BIPM)
3. Temperature Calibrator: TC-300
    - Serial Number: 112233-445566
    - Calibration Certificate: CAL-2024-33445
    - Traceability: National Standards Laboratory (NSL)

Calibration Conditions:

- Ambient Temperature: 22°C ± 1°C
- Relative Humidity: 45% ± 5%
- Atmospheric Pressure: 1013 hPa

Certification Statement:

This is to certify that the above equipment was calibrated using the stated reference standards and procedures. The measurements are traceable to recognized national and international standards. The equipment is considered to be in compliance with the manufacturer's specifications at the time of calibration.

Signature:

John Smith Calibration Engineer Precision Instruments Co.

Measurement Comparison Results:

Parameter	Nominal Value	Measured Value	Deviation	Tolerance
DC Voltage 1V	1.0000 V	1.0002 V	+0.0002 V	±0.001 V
DC Voltage 10V	10.000 V	10.0003 V	+0.0003 V	±0.002 V
DC Current 1A	1.0000 A	0.9998 A	-0.0002 A	±0.001 A
Resistance 1kΩ	1000.00 Ω	999.95 Ω	-0.05 Ω	±0.10 Ω
AC Voltage 100V	100.00 V	100.01 V	+0.01 V	±0.05 V

Uncertainty Data:

- DC Voltage (1V): ±0.00015 V
- DC Voltage (10V): ±0.00020 V
- DC Current (1A): ±0.00010 A
- Resistance (1kΩ): ±0.05 Ω
- AC Voltage (100V): ±0.02 V

Notes:

- All measurements were performed under controlled laboratory conditions.
- Deviation values indicate the difference between nominal and measured values.
- Results are within specified tolerances.

End of Certificate

Atmospheric Pressure: 1013 hPa

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Signature:

John Smith Calibration Engineer Precision Instruments Co.

Measurement Comparison Results:

Parameter Nominal Value Measured Value Deviation Tolerance

DC Voltage 1V 1.0000 V 1.0002 V +0.0002 V ±0.001 V

DC Voltage 10V 10.000 V 10.0003 V +0.0003 V ±0.002 V

DC Current 1A 1.0000 A 0.9998 A -0.0002 A ±0.001 A

Resistance 1kΩ 1000.00 Ω 999.95 Ω -0.05 Ω ±0.10 Ω

AC Voltage 100V 100.00 V 100.01 V +0.01 V ±0.05 V

Uncertainty Data:

DC Voltage (1V): ±0.00015 V

DC Voltage (10V): ±0.00020 V

DC Current (1A): ±0.00010 A

Resistance (1kΩ): ±0.05 Ω

AC Voltage (100V): ±0.02 V

Notes:

All measurements were performed under controlled laboratory conditions.

Deviation values indicate the difference between nominal and measured values.

Results are within specified tolerances.

End of Certificate