

Institute of Environmental Sciences and Technology

IEST-RP-CC013.3

Contamination Control Division
Recommended Practice 013.3

**Calibration Procedures and
Guidelines for Select Equipment
Used in Testing Cleanrooms and
Other Controlled Environments**



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1 SCOPE AND LIMITATIONS

1.1 Scope

This Recommended Practice (RP) covers procedures for calibrating and verifying equipment used in characterizing cleanrooms and for determining intervals of calibration. The RP includes general procedures for calibrating aerosol generators, photometers, anemometers, airflow capture hoods, temperature measurement systems and devices, pressure and vacuum gauges, polymicrosphere (PSL) generators, aerosol diluters, and condensation nuclei counters. Where available, references for calibrating other instruments are provided.

1.2 Limitations

Future revisions of this document will include calibration procedures for additional instruments that require procedures.

NOTE: Testing in accordance with this RP may involve hazardous materials, operations, and equipment. This RP does not purport to address all of the safety problems associated with the use of the document. It is the responsibility of the user to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use of this RP.

2 REFERENCES

The cited editions of the following documents are incorporated into this RP to the extent specified herein. Users are encouraged to investigate the possibility of applying the most recent editions of the references.

2.1 References and applicable documents

ANSI/NCSL Z540.3: Requirements for the Calibration of Measuring and Test Equipment.

Echols, W.H. and J.A. Young. 1963. *Studies of Portable Air-Operated Aerosol Generators.* US Naval Research Laboratory (NRL) Report 5929. Washington, DC.

IEST-RP-CC001.5: HEPA and ULPA Filters

ISO 10012:2003 Measurement management systems—Requirements for measurement processes and measuring equipment.

2.2 Sources and addresses

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