



Designation: E83 – 23

Standard Practice for Verification and Classification of Extensometer Systems¹

This standard is issued under the fixed designation E83; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscripted epsilon (ϵ) indicates an editorial change since the last revision or approval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope²

1.1 This practice covers procedures for the verification and classification of extensometer systems, but it is not intended to be a complete purchase specification. The practice is applicable only to instruments that indicate or record values that are proportional to changes in length corresponding to either tensile or compressive strain. Extensometer systems are classified on the basis of the magnitude of their errors.

1.2 Because strain is a dimensionless quantity, this document can be used for extensometers based on either SI or US customary units of displacement.

Note 1—Bonded resistance strain gauges directly bonded to a specimen cannot be calibrated or verified with the apparatus described in this practice for the verification of extensometers having definite gauge points. (See procedures as described in Test Methods E251.)

1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.4 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

- E6 Terminology Relating to Methods of Mechanical Testing
- E21 Test Methods for Elevated Temperature Tension Tests of Metallic Materials

¹ This practice is under the jurisdiction of ASTM Committee E23 on Mechanical Testing and is the direct responsibility of Subcommittee E23.01 on Calibration of Mechanical Testing Machines and Apparatus.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

E251 Test Methods for Performance Characteristics of Metallic Bonded Resistance Strain Gages

2.2 Other Standards:³

- JCGM 100:2008 Evaluation of measurement data – Guide to the expression of uncertainty in measurement

3. Terminology

3.1 Definition:

3.1.1 In addition to the terms listed, see Terminology E6.

3.1.2 *calibration*—a determination of the calibration factor for a system using established procedures.

3.1.3 *calibration factor*—the factor by which the change in extensometer reading must be multiplied to obtain the equivalent strain.

3.1.3.1 *Discussion*—For any extensometer, the calibration factor is equal to the ratio of change in length to the product of the gauge length and the change in the extensometer reading. For direct-reading extensometers the calibration factor is unity.

3.1.4 *compressometer*—a specialized extensometer used for sensing negative or compressive strain.

3.1.5 *deflectometer*—a specialized extensometer used for sensing of extension or motion, usually without reference to a specific gauge length.

3.1.6 *displacement tracking optical extensometer system (DOT)*, *n*—an optical extensometer system that uses marks at an initially known distance, physically placed on a specimen or calibration fixture, to establish the gauge length value for determination of strain.

3.1.7 *error, in extensometer systems*—the value obtained by subtracting the correct value of the strain from the indicated value given by the extensometer system.

3.1.8 *extensometer, ϵ* —a device for sensing strain.

3.1.9 *extensometer system*—a system for sensing and indicating strain.

3.1.9.1 *Discussion*—The system will normally include an extensometer, conditioning electronics and auxiliary device

³ Available from International Organization for Standardization (ISO), 190 Central Secretariat, BIBC II, Chemin de Bloessdorf 8, CP 801, 1214 Vevey, Geneva, Switzerland, <http://www.iso.org>.

Astm E83 Calibration Verification And Validation

Rachel Sandford



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Standards and Practices for Instrumentation Instrument Society of America,1980 Prepared by the Instrument Society of America Index of Specifications and Standards ,2005 Annual Book of ASTM Standards American Society for Testing and Materials,1978 **Multiaxial Fatigue and Deformation** Sreeramesh Kalluri,Peter J. Bonacuse,2000 Contains papers from a May 1999 symposium describing state of the art multiaxial testing techniques and analytical methods for characterizing fatigue and deformation behaviors of engineering materials Papers are classified into sections on multiaxial strength of materials multiaxial deformation **Book of ASTM Standards, with Related Material** American Society for Testing and Materials,1976 **Materials Metrology and Standards for Structural Performance** B.F. Dyson,S. Loveday,M.G. Gee,2012-12-06 This is a contributed reference work from international authors from both industry and academia It deals with materials metrology and standards for engineering design This includes examination of metrological considerations as well as investigating the many measurement and control techniques It will be of interest to all materials scientists and engineers from graduates to experienced professionals and will be particularly useful to all those involved with measurement instrumentation **Index and Directory of U.S. Industry Standards** ,1987 **Practical Aspects of Dynamic Verification of Extensometers** FJ. Albright,J. Annala,1994 Material property studies frequently require the measurement of load and strain Accurate measurement of both parameters is essential Methods for accurate static calibration and verification of load transducers and extensometers are well established More recently standard practices have been developed for the dynamic calibration of load transducers Still in its infancy is a standard method for dynamic verification of extensometers **Standard Practice of Calibration of Force-measuring Instruments for Verifying the Force Indication of Testing Machines** ASTM Committee E28 on Mechanical Testing,2013 Report on calibration verification H. W. Hinds,1994 *Standard Practices for Calibration and Verification for Force-Measuring Instruments* , **Statistical Considerations of Calibration Verification** William Henry,2003 *Standard Practices for Force Calibration and Verification of Testing Machines* , **The Scratch Test** N. M. Jennett,S. Owen-Jones,2002 **Instrument Calibration Verification** John R. Olvera,1993 **Cost Effective Automatic Test Equipment Calibration/verification Solution** Edgar N. Chung,2000 Direct Reading Particle Counters ,2015 We examined the calibration records of two direct reading instruments designated as condensation particle counters in order to determine the number of times they were found to be out of tolerance at annual manufacturer s recalibration For both instruments were found to be out of tolerance more times than within tolerance And it was concluded that annual calibration alone was insufficient to provide operational confidence in an instrument s response Thus a method based on subsequent agreement with data gathered from a newly calibrated instrument was developed to confirm operational readiness between annual calibrations hereafter referred to as bump testing The method consists of measuring source particles produced by a gas grille spark igniter in a

gallon size jar Sampling from this chamber with a newly calibrated instrument to determine the calibrated response over the particle concentration range of interest serves as a reference Agreement between this reference response and subsequent responses at later dates implies that the instrument is performing as it was at the time of calibration Side by side sampling allows the level of agreement between two or more instruments to be determined This is useful when simultaneously collected data are compared for differences i e background with process aerosol concentrations A reference set of data was obtained using the spark igniter The generation system was found to be reproducible and suitable to form the basis of calibration verification Finally the bump test is simple enough to be performed periodically throughout the calibration year or prior to field monitoring

Calibration in air monitoring ASTM.,1976 **Standard Practice for Verification and Classification of Extensometer Systems** ,2013

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