



ASTM International Committee E20 on Temperature Measurement



Visit the ASTM
Committee E20 Webpage:
www.astm.org/COMMITTEE/E20.htm

STAFF MANAGER:

Krista Robbins
ASTM International
Headquarters
100 Barr Harbor Drive
West Conshohocken, PA 19428
USA
Phone: +1 610.832.9689
Fax: +1 610.832.9666
Email: krobbins@astm.org



Established: 1962

Number of Members: 144+

Number of Standards: 44

The standards are available in: Volume 14.03 in the *Annual Book of ASTM Standards*

Meetings: E20 meets twice each year, in May and November

For six decades, ASTM Committee E20 has fostered a community of thermometer manufacturers, thermometer users, researchers and metrologists, and others with a general interest in the effective measurement of temperature—brought together to continuously and actively develop an array of documentary standards on Temperature Measurement. We invite you to join E20 and welcome your participation as we address new measurement challenges.

Participation in E20 activities is an excellent way to stay abreast of recent developments in the field of thermometry, to network with others in the field, to find solutions to technical problems, and to meet others with different backgrounds and perspectives. Members of committee E20 reside in 11 countries, distributed over 6 continents.

Meeting semi-annually for two days in the United States or Canada, E20 develops and updates a broad range of standards covering test methods, product specifications, usage guides, and reference tables. Each meeting also features two invited talks by experts from industry or government. When possible, tours of nearby facilities of interest to our community are planned for the following day.

No participation fees are levied for participation on E20; there is only a small annual fee to become an individual member of ASTM. Involvement in the standards development process is facilitated by ASTM's highly developed web site and electronic ballot system.

The Committee, with a current membership of approximately 149, has jurisdiction over 44 standards, published in the Annual Book of ASTM Standards, Volume 14.03.

COMMITTEE OFFICERS (SPRING 2018)

Chairman: Joe Mastropiero, Cannon Instrument Co

First Vice-Chairman: Randy Long, ANSI-ASQ National Accreditation Board

Second Vice-Chairman: Herb Dwyer, Nanmac Corporation

Recording Secretary: Trishia Hallmark, Tateho Ozark Technical Ceramics, Inc.

Membership Secretary: Michael Kelly, ICL Calibration Laboratories, Inc.

Member-at-Large: Thomas Wiandt, TrueCal Metrology, LLC

Member-at-Large: Jerry Gaffney, GEC Instruments

Each committee in ASTM International is composed of subcommittees that address specific segments within the general subject area covered by the technical committee. ASTM E20 has 9 technical subcommittees that maintain jurisdiction over its standards.



ASTM International

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ASTM International
100 Barr Harbor Drive
PO Box C700
W. Conshohocken
19428-2959
USA
Phone: +1 610.832.9500
Fax: +1 610.832.9555
Email: service@astm.org



SUBCOMMITTEES

- E20.02** Radiation Thermometry
- E20.03** Resistance Thermometers
- E20.05** Liquid-in-Glass Thermometers and Hydrometers
- E20.07** Fundamentals in Thermometry
- E20.09** Digital Contacts Thermometry
- E20.11** Thermocouples–Calibration
- E20.12** Thermocouples–Specifications
- E20.13** Thermocouple-Materials and Accessories Specifications
- E20.14** Thermocouples-Testing
- E20.90** Executive
- E20.91** Editorial and Terminology
- E20.94** Publication
- E20.96** Temperature Measurement Techniques Open Forum Workshop/Formal Colloquium

PUBLICATIONS SPONSORED BY COMMITTEE E20

Annual Book of ASTM Standards

Volume 14.03 Temperature Measurement

Manuals

MNL 12 Manual on the Use of Thermocouples in Temperature Measurement: Fourth Edition

Special Technical Publications (STPs)

STP 895 Applications of Radiation Thermometry

STP 852 Thermoelectricity: Theory, Thermometry, Tool

STP 565 Evolution of the International Practical Temperature Scale of 1968

STP 492 The Theory and Properties of Thermocouple Elements

SOME STANDARDS CURRENTLY MAINTAINED BY E20

- E1** Standard Specification for ASTM Liquid-in-Glass Thermometers
- E77** Standard Test Method for Inspection and verification of Thermometers
- E220** Standard Test Method for Calibration of Thermocouples By Comparison Techniques
- E230** Standard Specification and Temperature-Electromotive Force (EMF) Tables for Standardized Thermocouples
- E563** Standard Practice for Preparation and Use of an Ice-Point Bath as a Reference Temperature
- E608/E608M** Standard Specification for Mineral-Insulated, Metal-Sheathed Base Metal Thermocouples
- E644** Standard Test Methods for Testing Industrial Resistance Thermometers
- E879** Standard Specification for Thermistor Sensors for Clinical Laboratory Temperature Measurements
- E1129/E1129M** Standard Specification for Thermocouple Connectors
- E1137/E1137M** Standard Specification for Industrial Platinum Resistance Thermometers
- E1256** Standard Test Methods for Radiation Thermometers (Single Waveband Type)
- E1594** Standard Guide for Expression of Temperature
- E1750** Standard Guide for Use of Water Triple Point Cells
- E1965** Standard Specification for Infrared Thermometers for Intermittent Determination of Patient Temperature
- E2181/E2181M** Standard Specification for Compacted Mineral-Insulated, Metal-Sheathed Noble Metal Thermocouples and Thermocouple Cable
- E2251** Standard Specification for Liquid-in-Glass ASTM Thermometers with Low- Hazard Precision Liquids