

ASME PTC 19.3 - 1974

ANSI PTC 19.3 - 1974

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PART 3

Temperature Measurement

**INSTRUMENTS
AND
APPARATUS**

**Supplement to
A S M E**

**PERFORMANCE
TEST
CODES**

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
United Engineering Center
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PART 3

Temperature Measurement

INSTRUMENTS AND APPARATUS

Library of Congress Catalog No. 74-76612

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FOREWORD

The Scope of the work of Technical Committee No. 19 on Instruments and Apparatus is to describe the various types of instruments and methods of measurement likely to be prescribed in any of the ASME Performance Test Codes. Such details as the limits and sources of error, method of calibration, precautions, etc., as will determine their range of application are given.

Only the methods of measurement and instruments, including instructions for their use, specified in the individual test codes are mandatory. Other methods of measurement and instruments, that may be treated in the Supplements on Instruments and Apparatus, shall not be used unless agreeable to all the parties to the test.

This Supplement on Instruments and Apparatus, Part 3 on Temperature Measurement, replaces an older one published during the period from 1952-1961. Since that time the technology of temperature measurement has so changed and broadened that the earlier material has become obsolete. This necessitated a complete revision on the Supplement resulting in the currently expanded and more comprehensive document.

In accordance with the established policy of the American Society of Mechanical Engineers concerning the inclusion of metric (SI or International System) units in all ASME publications, this document includes an Appendix of appropriate conversion factors which will enable the user to utilize both systems. These conversions are listed in the Appendix as they first appear throughout the Supplement. Extensive use was made of the "ASME Orientation and Guide for Use of Metric Units, Third Edition" and The ASTM Metric Practice Guide E380-92." These two publications should be consulted for additional material concerning conversions from the US system to SI units.

This Edition was approved by the Performance Test Codes Committee on July 12, 1973. It was approved and adopted by the Council of the Society by action of the Board on Codes and Standards on May 29, 1974.

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