

**ISA-RP52.1-1975**

Approved June 30, 1975

Recommended Practice



# **Recommended Environments for Standards Laboratories**



ISA-RP52.1 — Recommended Environments for Standards Laboratories

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## Preface

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(This Preface is included for informational purposes and is not a part of Recommended Practice RP52.1).

This Recommended Practice has been prepared as a part of the service of ISA toward a goal of uniformity in the field of instrumentation. To be of real value this document should not be static, but should be subjected to periodic review. Toward this end the Society welcomes all comments and criticisms, and asks that they be addressed to the Standards and Practices Board Secretary, ISA, 67 Alexander Drive, P.O. Box 12277, Research Triangle Park, North Carolina 27709, e-mail: standards@isa.org.

This standards and practices project began with Task Force No.1 on Environmental Standards as organized by the Measurement Standards Division in 1959. A report was published in the February 1961 issue of the ISA Journal, entitled "Recommended Environments for Standards Laboratories." In 1962 the Measurement Standards Instrumentation Division organized the F-6 Environmental Committee. The Committee's report was published in the October 1964 issue of ISA Transactions, entitled "Recommended Environments for Standards Laboratories."

The present committee, known as the RP 52 Committee on Recommended Environments for Standards Laboratories, was organized by the Metrology Division in 1966. This committee conducted a panel discussion meeting at the 23rd Annual ISA Conference (1968) in New York City. The purpose was to review the 1964 Recommendations and to elicit new information from the audience on experience gained from environmental control of standards laboratories.

From a resume of this panel discussion it was possible for the committee members to formulate a revision of the 1964 Recommendations in light of new information. As an additional step, a re-edited version of the panel discussion was sent to 29 members of the National Conference of Standards Laboratories (NCSL) in order to gain further information. Selection for this survey was made from among the total membership in NCSL on the basis of extended experience with operation of a standards laboratory where environmental control was a factor of concern and interest. From responses of a portion of the 29 members selected, it was possible for the committee to have additional information at hand as an aid in revising the 1964 Recommendations. The result of this somewhat lengthy process of revision is found below.

The ISA Standards and Practices Department is aware of the growing need for attention to the metric system of units in general, and the International System of Units (SI) in particular, in the preparation of instrumentation standards. The Department is further aware of the benefits to USA users of ISA Standards of incorporating suitable references to the SI (and the metric system) in their business and professional dealings with other countries. Towards this end this Department will endeavor to introduce SI and SI-acceptable metric units in all new and revised standards to the greatest extent possible. *The ASTM Metric Practice Guide*, which has been published by the American National Standards Institute as ANSI Z210.1, (ASTM E380-76) will be the reference guide for definitions, symbols, abbreviations and conversion factors.

The ISA Standards Committee on Recommended Environments for Standards Laboratories, RP 52, operates within the ISA Standards and Practices Department, Whitney B. Miller, Vice-President. The persons listed below serve as members of this committee.