

STANDARD

**ELECTRICAL INSTRUMENTS
IN HAZARDOUS
DUST LOCATIONS**



Sponsor

**INSTRUMENT SOCIETY of AMERICA
67 Alexander Drive
P.O. Box 12277
Research Triangle Park, North Carolina 27709**

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PREFACE

This Standard has been prepared as a part of the service of the Instrument Society of America toward a goal of uniformity in the field of instrumentation. To be of real value, this document should not be static, but should be subject 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, Instrument Society of America, 67 Alexander Drive, P.O. Box 12277, Research Triangle Park, North Carolina 27709.

The development of this Standard was initiated as a result of a survey of the flour milling industry of need for additional electrical standards. Members of S12 had been working in gas and vapor standardization and recognized the need for others to deal with the similar problems in dusty locations. The Committee for Instrumentation for Hazardous Dust Locations, SP12 was formed under the Instrumentation for Hazardous Locations S12 Committee, SP12. The dust committee has exposed its views and findings to numerous forums of representatives of government, industry, and labor. A Canadian representative has made significant contributions. The Standard was passed through several mail-review-revision cycles until a consensus of reviewers was reached.

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 as optional alternatives to English units in all new and revised standards to the greatest extent possible. The Metric Practice Guide, which has been published by the American National Standards Institute as Z210.1-71 and future revisions, will be the reference guide for definitions, symbols, abbreviations, and conversion factors.

The assistance of those aided in the preparation of this document by answering questionnaires, offering suggestions, and in other ways, is gratefully acknowledged.

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