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Australian Standard 1384—1973

TRANSDUCERS FOR ELECTRICAL MEASUREMENTS

METRIC UNITS

STANDARDS ASSOCIATION OF AUSTRALIA
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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia

Australian and New Zealand Railways Conferences

Australian-British Trade Association

CSIRO Division of Applied Physics

Department of Defence

Defence Standards Laboratories

Electricity Supply Association of Australia

Electrical and Radio Federation, Victoria

Institution of Engineers, Australia

Postmaster-General's Department

This standard, prepared by Committee EL/12, Electrical Indicating and Recording Instruments, was approved on behalf of the Council of the Standards Association of Australia on 8 August 1973.

The specification is intended to include the technical provisions necessary for the supply of the materials referred to but does not purport to comprise all the necessary provisions of a contract.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards, addressed to the headquarters of the Association, are welcomed.

This standard was issued in draft form for public review as DR 72166.

AUSTRALIAN STANDARD

TRANSDUCERS FOR ELECTRICAL MEASUREMENTS

AS 1384—1973

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PREFACE

This standard was prepared by a subcommittee of the Association's Committee on Electrical Indicating and Recording Instruments.

It deals with transducers, as accessories to indicating instruments, to convert electrical quantities or qualities to electrical outputs.

The International Electrotechnical Commission (IEC) have not, as yet, published a recommendation on transducers for electrical measurement; however this standard follows the IEC practice, like AS 1042, Direct-acting Indicating Electrical Measuring Instruments and their Accessories, in using the numerical classification scheme.

The main feature of this classification is the concept of error as an inherent property of a transducer. When the error is determined in an environment where all the conditions that may modify or influence the output of the transducer (such as temperature, frequency and position) are held at standard values, this error is called 'intrinsic error', and is the basis of the numerical classification.

In the application of this standard, reference may be necessary to the following standards:

AS 1024	Direct-recording Electrical Measuring Instruments and their Accessories
AS 1042	Direct-acting Indicating Electrical Measuring Instruments and their Accessories
AS 1044	Limits of Electromagnetic Interference for Electrical Appliances and Equipment
AS 1243	Voltage Transformers for Measurement and Protection
AS C100 Ap.	Definitions and General Requirements for Electrical Materials and Equipment
AS C328	High Voltage Testing Techniques
AS C388	Current Transformers for Measurement and Protection

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