Australian Standard®

SOUND SYSTEM EQUIPMENT

Part 3—MICROPHONES

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Associated Chambers of Manufactures of Australia
Australian Broadcasting Commission
Consumer Interests
Department of Defence
Department of Transport
Federation of Australian Radio Broadcasters
Federation of Australian Commercial Television Stations
Institution of Radio and Electronics Engineers, Australia
National Acoustic Laboratories
Postal & Telecommunications Department
Telecom Australia
Universities

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Part 3—MICROPHONES

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PREFACE

This standard was prepared by the Association's Telecommunications and Electronics Committee on Electro-acoustics and Recording. It is part of the series of standards being prepared on sound system equipment.

In its terminology, definitions and general treatment of the subject this standard is technically identical with IEC 268–4 published by the International Electrotechnical Commission. Acknowledgement is made of the assistance received from this source.

The purpose of the standard is to define characteristics to be specified for all types of sound system microphones. The standard establishes uniform methods of measurement for the defined characteristics and specifies the conditions of operation under which the measurements are to be made.

The standard makes reference to the characteristics described in AS 1127 Sound System Equipment, Part 1—General. The characteristics defined in this standard are described in terms consistent with AS 1127, Part 1, and with AS 1633, Glossary of Acoustic Terms.

This standard may require reference to the following Australian standards:

AS Z41 Octave, Half Octave and One-third Octave Band Pass Filters Intended for the Analysis of Sound and Vibrations

AS 1045 Method of Measurement of Absorption Coefficients in a Reverberation Room

AS 1633 Glossary of Acoustic Terms

AS 1232 Pressure Calibration of Capacitor Microphones by the Reciprocity Technique.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification for SOUND SYSTEM EQUIPMENT

PART 3—MICROPHONES

1 SCOPE, APPLICATION AND DEFINITIONS.

1.1 Scope. This Part of this standard defines the characteristics of sound system microphones to be specified by the manufacturer and, where applicable, specifies relevant measuring methods and conditions.

Clause 20 classifies the individual characteristics into those which must be provided as markings on the microphone, data which shall always be specified in manual or technical specifications and additional data which may be given by the manufacturer.

NOTE: 'Sound system microphones' includes wide-band microphones, microphones normally used for speech and close-talking microphones.

1.2 Application. This Part of the standard applies to sound system microphones for both professional and domestic applications.

The term 'microphone', in this context, shall be understood to include devices such as transformers, pre-amplifiers or other elements which form an integral part of the microphone and have common output terminals.

Where stereo microphones are concerned, data for both elements should be provided.

1.3 Definitions. Terms used in this Part are consistent with the definitions contained in—

AS 1127 Sound System Equipment, Part 1—General

AS 1633 Glossary of Acoustic Terms.

2 GENERAL CONDITIONS.

2.1 General. Reference is made to AS 1127, Part 1, concerning the following:

(a) Units and system of measurement.

(b) Frequencies of measurement.

(c) Quantities to be specified and their accuracy.