

Amendment 1 - Oct 1970 ALS

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AUSTRALIAN STANDARD C42—1964
(UDC 621.317.7)

SUPERSEDED BY AS 1042 - 1973

**ELECTRICAL INDICATING
INSTRUMENTS**

Reprint \$1.80



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STANDARDS ASSOCIATION OF AUSTRALIA

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
Australian British Trade Association
Australian Railway Systems
Commonwealth Scientific and Industrial Research Organization
Defence Standards Laboratories
Department of Air
Department of Navy
Electrical and Radio Development Association of NSW
Electrical and Radio Federation, Victoria
Electricity Supply Association of Australia
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 23 September 1964.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards are welcomed ; these should be addressed to the Headquarters of the Association, Sydney.

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.

This standard was issued in draft form for public review as Doc. 580.

Amendment No 1
October 1970

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

AMENDMENT No 1
to
AS C42—1964
ELECTRICAL INDICATING INSTRUMENTS

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

Australian Standard Specification
for
**ELECTRICAL INDICATING
INSTRUMENTS**

AS C42—1964

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|----------------------|------|
| First edition | 1930 |
| Revised | 1964 |
| Reprinted | 1969 |

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STANDARDS HOUSE, 80 ARTHUR ST., NTH SYDNEY, N.S.W. (Copyright)**

PREFACE

This revision of AS C42—1930, Indicating Ammeters, Voltmeters, Wattmeters, Frequency and Power-factor Meters, was prepared by the Association's Committee on Electrical Indicating and Recording Instruments.

As with the previous edition, close attention was given in the preparation of this revision to the latest edition of the corresponding British standard for electrical indicating instruments, B.S. 89 : 1954. In addition, IEC Publication 51—1960, Recommendations for Indicating Electrical Measuring Instruments and their Accessories, was taken into account and whilst much of the B.S. 89 material has been incorporated, the revision is very largely patterned on the IEC publication. The Association acknowledges with appreciation the assistance received from these sources.

Of particular interest is the adoption of a numerical classification scheme indicating actual limits of error as compared with the more arbitrary classification into grades such as precision, industrial, sub-standard, first grade, and the like. The numerical scheme, which is widely followed overseas, obviates the necessity for numerous qualifications, explanatory notes and advisory appendices associated with the grade classification.

Other items of interest are the inclusion of a section on accessory shunts and resistors, and of comprehensive sections on variation in indication due to changes in reference conditions, and on tests ; the retention of terminal markings as in B.S. 89 ; the inclusion of shunt dimensions as in B.S. 89 ; and the adoption of symbols from IEC Publication 51.

This standard requires reference to :

- AS C320 Classification of Insulating Materials for Electrical Machinery and Apparatus (B.S. 2757 : 1956 endorsed)
- AS H64 Zinc Alloy Diecastings

The standard may also require reference to the following standards :

- AS C45 Instrument Transformers
 - AS B46 British Association (B.A.) Screw Threads (B.S. 93 : 1951 endorsed)
 - AS B47 Parallel Screw Threads of Whitworth Form (B.S. 84 : 1956 endorsed)
 - B.S. 771 Phenolic Moulding Materials
 - DEF 5011 (UK Ministry of Defence) Climatic and Durability Testing of Service Electronic Components.
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