

AS 1852(321)—1988

Australian Standard<sup>®</sup>

---

**INTERNATIONAL  
ELECTROTECHNICAL  
VOCABULARY**

**Chapter 321—INSTRUMENT  
TRANSFORMERS**

---

This Australian Standard was prepared by Committee TE/13, Symbols, Units & Quantities for Electrotechnology. It was approved on behalf of the Council of the Standards Association of Australia on 15 March 1988 and published on 17 June 1988.

---

The following interests are represented on Committee TE/13:

Australian Electrical and Electronic Manufacturers Association  
Confederation of Australian Industry  
Department of Administrative Services—Construction Group (Commonwealth)  
Department of Defence  
Department of Technical and Further Education, N.S.W., Victoria and  
South Australia  
Department of Transport and Communications (Commonwealth)  
Electricity Supply Association of Australia  
Institute of Draftsmen, Australia  
Institution of Radio and Electronics Engineers, Australia  
Melbourne & Metropolitan Board of Works  
Queensland Chamber of Mines  
Railways of Australia Committee  
Royal Melbourne Institute of Technology  
Telecom Australia  
The Association of Consulting Engineers, Australia  
The technical press

---

**Review of Australian Standards.** To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

AS 1852(321)—1988

Australian Standard<sup>®</sup>

---

**INTERNATIONAL  
ELECTROTECHNICAL  
VOCABULARY**

**Chapter 321—INSTRUMENT  
TRANSFORMERS**

---

First published as part of AS C50(20)—1970  
(endorsement of IEC 50(20)—1958).  
Redesignated AS 1852(20)—1970  
(endorsement of IEC 50(20)—1958).  
Revised and redesignated AS 1852(321)—1988

PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 5026 7

## PREFACE

This Standard was prepared by the Association's Committee on Symbols, Units and Quantities for Electrotechnology, under the authority of both the Telecommunications and Electronics Standards Board and the Electrical Standards Board. This Standard completes and replaces Section 45 of AS 1852(20)—1970, *International Electrotechnical Vocabulary, Scientific and industrial measuring instruments*, which was withdrawn in March 1987.

This Standard is identical with and has been reproduced from IEC 50(321)—1986. Acknowledgement is accordingly made to the International Electrotechnical Commission for this assistance.

This Standard is one of the AS 1852 series of Standards. In the past, this series has consisted of direct endorsements of the IEC 50 series of the International Electrotechnical Vocabulary. In future, newly issued parts of IEC 50, where appropriate, will be issued as Australian Standards, i.e. not endorsements. The full text of the definitions in English, French and Russian has been included as some definitions are considered to be incomplete when produced in one language.

The purpose of the AS 1852 series is to provide a glossary of terms used in electrical engineering. The series lists terms in English, French and Russian, and in some cases Spanish. It is intended that other Australian Standards will refer to AS 1852 and not repeat any definitions.

## CONTENTS

SECTION	Page
321-01 GENERAL AND COMMON TERMS . . . . .	3
321-02 CURRENT TRANSFORMERS . . . . .	10
321-03 VOLTAGE TRANSFORMERS . . . . .	18
INDEX . . . . .	25

### © Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

## STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

## INTERNATIONAL ELECTROTECHNICAL VOCABULARY

## CHAPTER 321—INSTRUMENT TRANSFORMERS

## INTRODUCTION

Dans son état actuel, le présent chapitre traite uniquement des transformateurs de mesure classiques de type bobiné (ou ayant des parties bobinées), destinés à être utilisés en liaison avec des appareils de mesure ou des dispositifs de protection. Dans l'avenir, il est prévu qu'il soit mis à jour pour tenir compte de l'introduction de nouveaux types de transformateurs de mesure, avec un titre plus général.

Sauf indication contraire, les caractéristiques fonctionnelles telles que erreurs, courants assignés, etc., sont valables pour des courants et tensions sinusoïdaux et en régime établi, et les valeurs des courants et des tensions apparaissant dans les termes et les définitions sont des valeurs efficaces.

## INTRODUCTION

In its present state, this chapter deals only with conventional wound type (or having wound parts) instrument transformers intended to be used with measuring apparatus or protection devices. In the future, it will be updated to take into account the introduction of new types of instrument transformers with a more general title.

Unless otherwise stated, the functional characteristics, such as errors, rated currents and so on are valid in the case of sinusoidal currents and voltages under steady-state conditions and the values of current and voltages appearing in the terms and definitions are r.m.s. values.

## ВВЕДЕНИЕ

В настоящем виде содержание этой главы распространяется только на стандартные измерительные трансформаторы, имеющие обмотки (или элементы обмоток), предназначенные для использования с измерительными приборами или защитными устройствами. Необходимо иметь в виду, что в дальнейшем возможно введение новых типов измерительных трансформаторов под более общим наименованием.

Если не установлено иначе, то такие функциональные характеристики, как погрешности, номинальные токи и т.п. являются обоснованными при синусоидальных токах и напряжениях в условиях установившегося режима; в терминах и определениях приводятся действующие значения токов и напряжений.

## SECTION 321-01—GENERAL AND COMMON TERMS

## 321-01-01

## transformateur de mesure

Transformateur destiné à transmettre un signal d'information à des appareils de mesure, à des compteurs, à des dispositifs de protection ou de commande.

*Note.* — Les transformateurs de mesure comprennent les transformateurs de courant (voir section 2) et les transformateurs de tension (voir section 3).

## instrument transformer

A transformer intended to transmit an information signal to measuring instruments, meters and protective or control devices.

*Note.* — The term "instrument transformer" encompasses both current transformers (see Section 2) and voltage transformers (see Section 3).

## измерительный трансформатор

Трансформатор, предназначенный для передачи информационного сигнала измерительным приборам, счетчикам, устройствам защиты и (или) управления.

*Примечание.* — Термин «измерительный трансформатор» относится как к трансформаторам тока (см. раздел второй), так и к трансформаторам напряжения (см. раздел третий).

## 321-01-02

## autotransformateur de mesure

Transformateur de mesure dans lequel les enroulements primaire et secondaire ont une partie commune.

## instrument autotransformer

An instrument transformer in which the primary and the secondary windings have a common part.

## измерительный автотрансформатор

Измерительный трансформатор, у которого первичная и вторичная обмотки имеют общую часть.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-