AS 60870.4—1998
IEC 60870-4:1990

Australian Standard®

Telecontrol equipment and systems

Part 4: Performance requirements

currently in preview, click buy full versi

This Australian Standard was prepared by Committee IT/24, Supervisory Control and Data Acquisition. It was approved on behalf of the Council of Standards Australia on 5 January 1998 and published on 5 April 1998.

The following interests are represented on Committee IT/24:

Association of Consulting Engineers Australia

Australasian Railway Association

Australian Communications Authority

Australian Electrical and Electronic Manufacturers Association

Australian Fire Authorities Council

Australian Gas Association

Australian Pipeline Industry Association

Australian Security Industry Association

AUSTROADS

CIGRE AP35

Electricity Supply Association of Australia

Fire Protection Association of Australia

Institution of Engineers Australia

Telstra Corporation

Water Services Association of Australia

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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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.

This Standard was issued in draft form for comment as DR 97135.

currently in preview, click buy full version

Australian Standard®

Telecontrol equipment and systems

Part 4: Performance requirements

First published as AS 60870.4—1998.

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

ISBN 0 7337 1852 3

currently in preview, click buy full version

PREFACE

This Standard was prepared by the Standards Australia Committee IT/24, Supervisory Control and Data Acquisition.

The Standard is identical with and has been reproduced from IEC 60870-4:1990, *Telecontrol equipment and systems*, Part 4: *Performance requirements*.

IEC has decided to apply a new numbering system, the 60000 series, to all its existing and future publications, including amendments to existing Standards. As a consequence, IEC has modified the bibliographic references in its databases to accord with the new numbering system. All IEC publications issued since the beginning of 1997 will carry references in terms of the 60000 series numbering. Publications printed earlier than 1997 will continue to carry the old series of numbers. For example, a reference to the IEC 60870 series of Standards will be to IEC 870 if the current edition of the Standard was printed prior to 1997.

This Standard is identical with a pre-1997 document therefore it uses the old series of numbers.

The objective of this Standard is to provide manufacturers and users of telecontrol equipment and systems with a set of rules for accessing and specifying performance requirements in order to determine the requirements for a particular telecontrol system to be used in Australia.

As this Standard is reproduced from an international Standard, the following applies:

(a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(b) In the source text 'this International Standard' should read 'this Australian Standard'.

(c) A full point substitutes for a comma when referring to a decimal marker.

© 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.

currently in preview, click buy full version

CONTENTS

currently in preview, click buy full vers

NOTES

currently in preview, click buy full vers

AUSTRALIAN STANDARD

TELECONTROL EQUIPMENT AND SYSTEMS

Part 4: Performance requirements

INTRODUCTION

Reliable and secure remote monitoring and control of a geographically widespread process is the ultimate goal of a telecontrol system. This standard covers those aspects which contribute to achieving a level of system performance consistent with that goal.

The approach adopted in this standard has been to treat the subject of performance requirements on the basis of the inherent properties of telecontrol systems.

The inherent properties of a system are those intangibles, such as availability, time parameters, etc., which in many ways affect the overall system performance. During normal system operation, these properties and their effect on the system performance go largely unnoticed. Their real value is only noticed in exceptional circumstances, such as on detection of a fault, or when it is necessary to extend the system. The system performance, especially under these conditions, reflects the consideration given to these properties in the planning, design and manufacture of the equipment.

In determining the performance requirements for a particular telecontrol system, care should be taken to stipulate standards which are adequate for the specific application, without being tempted to place excessive demands. A balance should be found between the ideal requirements on the one hand, and the technical and financial consequences on the other hand.

1. **Scope**

This series of standards applies to telecontrol equipment and systems with coded bit serial data transmission for monitoring and control of geographically widespread processes. The scope of this standard embraces telecontrol systems in the restricted sense, as shown in IEC Publication 870-1-1, figure 2.

2. **Object**

This part deals with those characteristics which affect the performance of telecontrol systems and relates the characteristics to the application and processing functions.

The object of this part is to establish a set of rules which can be used to assess and specify the performance requirements of telecontrol systems.

COPYRIGHT

currently in preview, click buy full version