Australian Standard™

Functional safety—Safety instrumented systems for the process industry sector

Part 2: Guidelines for the application of AS IEC 61511.1

STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee IT-006, Information Technology for Industrial Automation and Integration. It was approved on behalf of the Council of Standards Australia on 5 March 2004 and published on 10 May 2004.

The following are represented on Committee IT-006:

Association of Consulting Engineers Australia

Australian Electrical and Electronic Manufacturers Association

CSIRO Centre for Planning and Design

CSIRO Manufacturing & Infrastructure Technology

Department of Defence (Australia)

Institute of Instrumentation, Control and Automation Australia

Institution of Engineers Australia

Monash University

RMIT University

The University of Melbourne

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to the Chief Executive, Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001.

This Standard was issued in draft form for comment as DR 04054.

AS IEC 61511.2—2004

Australian Standard™

Functional safety—Safety instrumented systems for the process industry sector

Part 2: Guidelines for the application of AS IEC 61511.1

ii

PREFACE

This Standard was prepared by the Standards Australia Committee IT-006, Information Technology for Industrial Automation and Integration.

This Standard is identical with, and has been reproduced from IEC 61511-2:2003, *Functional safety—Safety instrumented systems for the process industry sector—*Part 2*: Guidelines for the application of IEC 61511-1.*

The objective of this Standard is to provide guidance on the specification, design, installation, operation and maintenance of Safety Instrumented Functions and related safety instrumented systems as defined in IEC 61511-1.

This Standard is Part 2 of AS IEC 61511—2004, *Functional safety—Safety instrumented systems for the process industry sector*, which is published in parts as follows:

Part 1: Framework, definitions, system, hardware and software requirements
Part 2: Guidelines for the application of AS IEC 61511-1 (this Standard)
Part 3: Guidance for the determination of the required safety integrity levels

The terms 'normative' and 'informative' are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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 should be substituted for a comma when referring to a decimal marker.

iii

CONTENTS

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

Product Page