



# MALAYSIAN STANDARD

MS IEC 60870-5-101:2012

**TELECONTROL EQUIPMENT AND SYSTEMS -  
PART 5-101: TRANSMISSION PROTOCOLS -  
COMPANION STANDARD FOR BASIC  
TELECONTROL TASKS  
(IEC 60870-5-101:2003, IDT)**

**ICS: 33.200**

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The Industry Standards Committee on Generation, Transmission and Distribution of Energy (ISC E) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

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Atomic Energy Licensing Board  
Department of Standards Malaysia  
Federation of Malaysian Manufacturers  
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Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Teknologi Malaysia

The Technical Committee on High Voltage Power Transmission which supervised the adoption of the IEC Standard as Malaysian Standard consists of representatives from the following organisations:

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Malaysian National Committee of CIGRE  
SIRIM Berhad (Secretariat)  
Suruhanjaya Tenaga  
Syarikat SESCO Berhad  
Tenaga Nasional Berhad (Bahagian Penghantaran)  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Teknologi Malaysia

The Working Group on Power System Management and Associated Information Exchange which recommended the adoption of the IEC Standard consists of representatives from the following organisations:

ABB Malaysia Sdn Bhd  
Petroleum Nasional Berhad  
Prestigious Discovery Sdn Bhd  
PSI InControl Sdn Bhd  
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Suruhanjaya Tenaga  
Tenaga Nasional Berhad (Bahagian Penghantaran)  
The Institution of Engineers, Malaysia  
TNB Research Sdn Bhd  
Universiti Tenaga Nasional

## NATIONAL FOREWORD

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Working Group on Power System Management and Associated Information Exchange under the authority of the Industry Standards Committee on Generation, Transmission and Distribution of Energy.

This Malaysian Standard is identical with IEC 60870-5-104:2006, *Telecontrol equipment and systems - Part 5-104: Transmission protocols - Network access for IEC 60870-5-101 using standard transport profiles*, published by the International Electrotechnical Commission (IEC). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, "this International Standard" should read "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any), to read as a point; and
- c) the basis IEC 60870-5-104 is printed in English and French version. However, only the English version is retained for this Malaysian Standard; and
- d) reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

Referenced International Standards

Corresponding Malaysian Standards

IEC 60870-5-101, *Telecontrol equipment and systems - Part 5-101: Transmission protocols - Companion standard for basic telecontrol tasks*

MS IEC 60870-5-101, *Telecontrol equipment and systems - Part 5-101: Transmission protocols - Companion standard for basic telecontrol tasks*

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## TELECONTROL EQUIPMENT AND SYSTEMS –

**Part 5-101: Transmission protocols –  
Companion standard for basic telecontrol tasks**

## FOREWORD

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International Standard IEC 60870-5-101 has been prepared by IEC technical committee 57: Power system control and associated communications.

This second edition cancels and replaces the first edition published in 1995, its amendments 1 (2000) and 2 (2001) and constitutes a technical revision.

The text of this standard is based on the following documents:

| FDIS        | Report on voting |
|-------------|------------------|
| 57/605/FDIS | 57/623/RVD       |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.