



# MALAYSIAN STANDARD

MS IEC 62305-4:2007

**PROTECTION AGAINST LIGHTNING-PART 4:  
ELECTRICAL AND ELECTRONIC SYSTEMS  
WITHIN STRUCTURES  
(FIRST REVISION)  
(IEC 62305-4:2006, IDT)**

**ICS: 91.120.40, 29.020**

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## Committee representation

The Electrotechnical Industry Standards Committee (ISC E) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Department of Standards Malaysia  
Federation of Malaysian Manufacturers  
Independent Power Producer Association  
Jabatan Kerja Raya Malaysia  
Malaysian Cable Manufacturers Association  
Malaysian Electrical Appliances and Distributors Association  
Ministry of Domestic Trade and Consumer Affairs  
Ministry of International Trade and Industry  
Persatuan Pengguna-Pengguna Standard Malaysia  
Pusat Tenaga Malaysia  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Komunikasi dan Multimedia Malaysia  
Suruhanjaya Tenaga  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Teknologi Malaysia

The Working Group on Lightning Protection which recommends adoption of the IEC Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Institute of Engineer Malaysia  
Jabatan Kerja Raya Malaysia (Cawangan Kejuruteraan Elektrik)  
Lightning Research Sdn Bhd  
Markas Angkatan Tentera Malaysia  
Mega Jati Consult Sdn Bhd  
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SIRIM QAS International Sdn Bhd  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
TM Research and Development  
TNB Research Sdn Bhd  
Universiti Teknologi Malaysia

## NATIONAL FOREWORD

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Technical Committee on Electromagnetic Compatibility (EMC) under the authority of the Electrotechnical Industry Standards Committee (ISC E)

This Malaysian Standard is identical with IEC 62305-4:2006, *Protection Against Lightning – Part 4: Electrical and electronic systems within structures*, 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;
- c) the basis IEC 62305-4 is printed in English and French languages. However, only the English version on odd pages is retained for this Malaysian Standard; and
- d) references to normative reference should be replaced by Malaysian Standard.

MS IEC 62305 consist of the following parts, under the general title *Protection against lightning*:

- *Protection against lightning Part-1: General principles*
- *Protection against lightning Part-2: Risk management*
- *Protection against lightning Part-3: Physical damage to structures and life hazard*
- *Protection against lightning Part-4: Electrical and electronic systems within structures*

This standard cancels and replaces:

- a) MS IEC 61024-1:2001, *Protection of structures against lightning Part 1: General principles*
- b) MS IEC 61024-1-1:2001, *Protection of structures against lightning Part 1: General principles Section 1: Guide A - Selection of protection levels of lightning protection systems*
- c) MS IEC 61024-1-2: 2001, *Protection of structures against lightning Part 1-2: General principles, Guide B - Design, installation, maintenance and inspection of lightning protection systems*

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