



MALAYSIAN STANDARD

MS 1745: PART 1:2004

FIRE DETECTION AND ALARM SYSTEMS - PART 1: INTRODUCTION

ICS: 13.220.10, 13.220.20

Descriptors: fire detection, fire alarm, definitions

© Copyright

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia (DSM)** is the national standardisation and accreditation body.

The main function of the Department is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefiting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation.

Malaysian Standards are developed through consensus by committees which comprise of balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. These standards where appropriate are adoption of international standards. Approval of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 (Act 549). Malaysian Standards are reviewed periodically. The use of Malaysian Standards is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

The Department of Standards appoints **SIRIM Berhad** as the agent to develop Malaysian Standards. The Department also appoints SIRIM Berhad as the agent for distribution and sale of Malaysian Standards.

For further information on Malaysian Standards, please contact:

Department of Standards Malaysia OR
Level 1 & 2, Block C4, Parcel C
Federal Government Administrative Centre
62502 Putrajaya
Malaysia

Tel: 60 3 88858000
Fax: 60 3 88885060
<http://www.dsm.gov.my>

Email: central@dsm.gov.my

SIRIM Berhad
1, Persiaran Dato' Menteri
P.O. Box 7035, Section 2
40911 Shah Alam
Selangor D.E.

Tel: 60 3 5544 6000
Fax: 60 3 5510 8095
<http://www.sirim.my>

CONTENTS

| | Page |
|--|-------------|
| Committee representation..... | ii |
| Foreword..... | iii |
| 0 Introduction..... | 1 |
| 1 Scope..... | 1 |
| 2 Definitions..... | 2 |
| 3 Compliance..... | 7 |
| | |
| Figure 1 Example illustrating components forming a fire detection and fire alarm system | 8 |

MS 1745: PART 1:2004

Committee representation

The Fire Safety and Prevention Industry Standards Committee (ISC M) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
Department of Chemistry, Malaysia
Department of Standards Malaysia
Forest Research Institute of Malaysia
General Insurance Association of Malaysia
Housing Developers Association of Malaysia
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Kerja Raya
Malaysian Fire Protection Association
Master Builders Association of Malaysia
Pertubuhan Akitek Malaysia
The Institution of Engineers, Malaysia
The Institution of Fire Engineers (UK) Malaysian Branch

The Technical Committee on Dry Fire Protection System which developed this Malaysian Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia

Forest Research Institute of Malaysia

General Insurance Association of Malaysia

Jabatan Bomba dan Penyelamat Malaysia

Jabatan Kerja Raya

Malaysian Fire Protection Association

Pertubuhan Akitek Malaysia

SIRIM Berhad (Secretariat)

SIRIM QAS International Sdn Bhd (Electrotechnical Testing)

SIRIM QAS International Sdn Bhd (Product Certification)

The Institution of Engineers, Malaysia

Universiti Putra Malaysia

FOREWORD

This Malaysian Standard was developed by the Technical Committee on Dry Fire Protection System under the authority of the Fire Safety and Prevention Industry Standards Committee.

The MS 1745 series of this standards is currently being deliberated under the new general title *Fire detection and fire alarm systems*.

- MS 1745: Part 1: *Introduction*
- MS 1745: Part 2: *Control and indicating equipment*
- MS 1745: Part3: *Audible Fire Alarm device*
- MS 1745: Part 4: *Power supplies*
- MS 1745: Part 5: *Heat sensitive detectors – Point detectors containing a static element*
- MS 1745: Part 6: *Heat sensitive detectors – Rate of rise point detectors without a static element*
- MS 1745: Part 7: *Point-type smoke detectors – Detectors using scattered light, transmitted light or ionization*
- MS 1745: Part 8: *High temperature heat detectors*
- MS 1745: Part 9: *Fire sensitivity test*
- MS 1745: Part 10: *Flame detectors*
- MS 1745: Part 11: *Manual call points*
- MS 1745: Part 12: *Optical smoke detectors*

These standards provide definition on the fire detection and fire alarm system. This series of standard will replace the existing MS as appended below.

- MS 1745: Part 2 replaces MS 1404: Part 4: 1996
- MS 1745: Part 5 replaces MS 1176: Part 5: 1990
- MS 1745: Part 7 replaces MS 1176: Part 7: 1991
- MS 1745: Part 8 replaces MS 1176: Part 8: 1991
- MS 1745: Part 9 replaces MS 1176: Part 9: 1993

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