



# MALAYSIAN STANDARD

MS IEC 60079-17:2017

**Explosive atmospheres - Part 17:  
Electrical installations inspection and  
maintenance  
(Second revision)  
(IEC 60079-17:2013, IDT)**

**ICS: 29.260.20**

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## CONTENTS

Committee representation.....	iv
National foreword.....	v
Foreword.....	5
Introduction.....	7
1 Scope.....	8
2 Normative references .....	8
3 Terms and definitions .....	9
4 General requirements .....	11
4.1 Documentation.....	11
4.2 Qualification of personnel .....	11
4.3 Inspections .....	11
4.3.1 General .....	11
4.3.2 Grades of inspection.....	12
4.3.3 Types of inspection.....	13
4.4 Periodic inspections .....	13
4.4.1 Personnel .....	13
4.4.2 Fixed installations.....	13
4.4.3 Movable equipment.....	14
4.5 Continuous supervision by skilled personnel .....	14
4.5.1 Concept.....	14
4.5.2 Objectives .....	14
4.5.3 Responsibilities .....	15
4.5.4 Frequency of inspection.....	15
4.5.5 Documents .....	16
4.5.6 Training .....	16
4.6 Maintenance requirements.....	16
4.6.1 Remedial measures and alterations to equipment .....	16
4.6.2 Maintenance of flexible cables .....	17
4.6.3 Withdrawal from service.....	17
4.6.4 Fastenings and tools.....	17
4.7 Environmental conditions .....	17
4.8 Isolation of equipment.....	18
4.8.1 Installations other than intrinsically safe circuits .....	18
4.8.2 Intrinsically safe installations live maintenance .....	19
4.9 Earthing and equipotential bonding .....	20
4.10 Specific conditions of use .....	20
4.11 Movable equipment and its connections .....	20
4.12 Inspection schedules (Tables 1 to 3).....	20
4.12.1 General .....	20
4.12.2 Equipment is appropriate to the EPL/zone requirements of the location.....	20
4.12.3 Equipment group .....	20
4.12.4 Equipment maximum surface temperature .....	20
4.12.5 Equipment circuit identification .....	20
4.12.6 Cable gland .....	21
4.12.7 Type of cable.....	21
4.12.8 Sealing .....	21

4.12.9	Fault loop impedance or earthing resistance .....	21
4.12.10	Insulation resistance .....	21
4.12.11	Overload protection .....	21
4.12.12	Lamps and luminaires .....	21
5	Additional inspection schedule requirements .....	22
5.1	Type of protection “d” – Flameproof enclosure (see Table 1 and IEC 60079-1) .....	22
5.2	Type of protection “e” – Increased safety (see Table 1 and IEC 60079-7) .....	22
5.3	Type of protection “i” – Intrinsic safety (see Table 2 and IEC 60079-11).....	22
5.3.1	General .....	22
5.3.2	Documentation .....	22
5.3.3	Labelling.....	23
5.3.4	Unauthorized modifications.....	23
5.3.5	Associated apparatus (safety interface) between intrinsically safe and non-intrinsically safe circuits .....	23
5.3.6	Cables .....	23
5.3.7	Cable screens.....	23
5.3.8	Point-to-point connections .....	23
5.3.9	Earth continuity of non-galvanically isolated circuits .....	23
5.3.10	Earth connections to maintain the integrity of the intrinsic safety .....	24
5.3.11	Intrinsically safe circuit earthing and/or insulation .....	24
5.3.12	Separation between intrinsically safe and non-intrinsically safe circuits .....	24
5.4	Type of protection “p” and “pD” – Pressurized enclosure (see Table 3, IEC 60079-2 and IEC 61241-4) .....	24
5.5	Type of protection “n” (see Table 1 or 2 and IEC 60079-15).....	24
5.5.1	General .....	24
5.5.2	Restricted breathing enclosures.....	25
5.6	Type of protection “t” and “tD” – Protection by enclosure (see Table 1 and IEC 60079-31 and IEC 61241-1) .....	25
5.7	Types of protection “m” and “mD” (encapsulation), “o”, (oil-immersion) “op” (optical radiation) and “q” (powder-filling).....	25
6	Inspection tables .....	25
	Annex A (informative) Typical inspection procedure for periodic inspections .....	30
	Annex B (normative) Knowledge, skills and competencies of responsible persons, technical persons with executive function and operatives.....	31
B.1	Scope .....	31
B.2	Knowledge and skills .....	31
B.2.1	Responsible persons and technical persons with executive function .....	31
B.2.2	Operative/technician (inspection and maintenance) .....	31
B.3	Competencies .....	32
B.3.1	General .....	32
B.3.2	Responsible persons and technical persons with executive function .....	32
B.3.3	Operative/technician .....	32
B.4	Assessment .....	32
	Annex C (informative) Fitness-for-purpose assessment .....	33
C.1	Background.....	33

C.2	Need for a fitness-for-purpose assessment .....	33
C.3	Approach .....	33
C.4	Ignition sources .....	33
C.5	Contents of the fitness-for-purpose assessment.....	33
C.5.1	General .....	33
C.5.2	Scope .....	33
C.5.3	Equipment and its application .....	34
C.5.4	Description .....	34
C.5.5	Function of the product including the location .....	34
C.5.6	Specification .....	34
C.5.7	Standards compliance .....	34
C.5.8	Documents .....	35
C.5.9	Product sample.....	35
C.5.10	Equipment label.....	35
C.5.11	Training of personnel.....	35
Annex D (informative)	Example of motor checks .....	36
Bibliography.....		37
Figure A.1	– Typical inspection procedure for periodic inspections.....	30
Table 1	– Inspection schedule for Ex “d”, Ex “e”, Ex “n” and Ex “t/tD” .....	25
Table 2	– Inspection schedule for Ex “i” installations.....	28
Table 3	– Inspection schedule for Ex “p” and “pD” installations .....	29

## **Committee representation**

The Industry Standards Committee on Electrical and Electronics Equipments and Accessories (ISC S) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Atomic Energy Licensing Board  
Department of Standards Malaysia  
Federation of Malaysian Manufacturers  
Jabatan Kerja Raya Malaysia  
Malaysian Association of Standards Users  
Malaysian Cable Manufacturers Association  
Malaysian Electrical Appliances and Distributors Association  
Ministry of Domestic Trade, Co-operatives and Consumerism  
Ministry of International Trade and Industry  
Multimedia University  
SIRIM Berhad (Secretariat)  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Komunikasi dan Multimedia Malaysia  
Suruhanjaya Tenaga  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
Universiti Teknologi Malaysia  
Universiti Tenaga Nasional

The Technical Committee on Equipment for Explosive Atmospheres which recommended the adoption of the IEC Standard as Malaysian Standard consists of representatives from the following organisations:

Ampmech Industries Sdn Bhd  
Association of Consulting Engineers Malaysia  
Association of Malaysian Oil and Gas Engineering Consultants  
Department of Occupational Safety and Health  
Federation of Malaysian Manufacturers  
Jabatan Bomba dan Penyelamat Malaysia  
Malaysian Gas Association  
Malaysian Oil and Gas Services Council  
PETRONAS Carigali Sdn Bhd  
PETRONAS Penapisan Melaka Sdn Bhd  
Sarawak Shell Berhad  
SIRIM Berhad (Secretariat)  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Tenaga  
Tenaga Nasional Berhad (Generation Division)  
The Institution of Engineers, Malaysia  
Universiti Teknologi Malaysia

## National foreword

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Technical Committee on Equipment for Explosive Atmospheres under the authority of the Industry Standards Committee on Electrical and Electronics Equipments and Accessories.

This Malaysian Standard is identical with IEC 60079-17:2013, *Explosive atmospheres - Part 17: Electrical installations inspection and maintenance*, 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 60079-17 is printed in English and French version. However, only the English version is retained for this Malaysian Standard;
- d) reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

### Referenced International Standards

### Corresponding Malaysian Standards

IEC 60079-0, *Explosive atmospheres - Part 0: Equipment - General requirements*

MS IEC 60079-0, *Explosive atmospheres - Part 0: Equipment - General requirements*

IEC 60079-1, *Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"*

MS IEC 60079-1, *Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"*

IEC 60079-2, *Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures "p"*

MS IEC 60079-2, *Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures "p"*

IEC 60079-7, *Explosive atmospheres - Part 7: Equipment protection by increased safety "e"*

MS IEC 60079-7, *Explosive atmospheres - Part 7: Equipment protection by increased safety "e"*

IEC 60079-10-1, *Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres*

MS IEC 60079-10-1, *Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres*

IEC 60079-10-2, *Explosive atmospheres - Part 10-2: Classification of areas - Combustible dust atmospheres*

MS IEC 60079-10-2, *Explosive atmospheres - Part 10-2: Classification of areas - Combustible dust atmospheres*

IEC 60079-11, *Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"*

MS IEC 60079-11, *Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"*

**National foreword** *(continued)*Referenced International Standards

IEC 60079-14, *Explosive atmospheres - Part 14: Electrical installations design, selection and erection*

IEC 60079-15, *Explosive atmospheres - Part 15: Equipment protection by type of protection "n"*

IEC 60079-19, *Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation*

e) reference to International Standards in bibliography should be replaced by corresponding Malaysian Standards as follows:

Referenced International Standards

IEC 60079-5, *Explosive atmospheres - Part 5: Equipment protection by powder filling "q"*

IEC 60079-6, *Explosive atmospheres - Part 6: Equipment protection by oil immersion "o"*

IEC 60079-18, *Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"*

IEC 60079-26, *Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga*

IEC 60079-28, *Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation*

IEC 60204-1, *Safety of machinery - Electrical equipment of machines - Part 1: General requirements*

ISO 31000, *Risk management - Principles and guidelines*

Corresponding Malaysian Standards

MS IEC 60079-14, *Explosive atmospheres - Part 14: Electrical installations design, selection and erection*

MS IEC 60079-15, *Explosive atmospheres - Part 15: Equipment protection by type of protection "n"*

MS IEC 60079-19, *Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation*

Corresponding Malaysian Standards

MS IEC 60079-5, *Explosive atmospheres - Part 5: Equipment protection by powder filling "q"*

MS IEC 60079-6, *Explosive atmospheres - Part 6: Equipment protection by oil immersion "o"*

MS IEC 60079-18, *Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"*

MS IEC 60079-26, *Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga*

MS IEC 60079-28, *Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation*

MS IEC 60204-1, *Safety of machinery - Electrical equipment of machines - Part 1: General requirements*

MS ISO 31000, *Risk management - Principles and guidelines*

**National foreword** (*concluded*)

This Malaysian Standard cancels and replaces MS IEC 60079-17:2008, *Explosive atmospheres - Part 17: Electrical installations inspection and maintenance (First revision)*.

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

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**EXPLOSIVE ATMOSPHERES –****Part 17: Electrical installations inspection and maintenance**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60079-17 has been prepared by subcommittee 31J: Classification of hazardous areas and installation requirements, of IEC technical committee 31: Equipment for explosive atmospheres.

This fifth edition cancels and replaces the fourth edition published in 2007 and constitutes a technical revision.

The significant technical changes with respect to the previous edition are as follows:

- Equipment specific inspection tables for luminaires, heating systems and motors have been added into Annex A to supplement the general protection concept tables.
- Document has been updated to complement the changes made to IEC 60079-14 for initial inspection.

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

FDIS	Report on voting
31J/224/FDIS	31J/229/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.

This International Standard is to be used in conjunction with IEC 60364-6.

A list of all parts of the IEC 60079 series, under the general title *Explosive atmospheres*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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