
Smoke alarms using scattered light, transmitted light or ionization

*Dispositifs d'alarme de fumée fonctionnant suivant le principe de
la diffusion de la lumière, de la transmission de la lumière ou de
l'ionisation*

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Contents

	Page
Foreword	vii
Introduction	viii
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 General requirements	5
4.1 Conformity.....	5
4.2 Optional and additional functions.....	5
4.3 Smoke alarm type.....	5
4.4 Response threshold value of detectors using scattered or transmitted light.....	6
4.5 Alarm condition.....	6
4.5.1 Aural indicator.....	6
4.5.2 Visual indicators.....	6
4.6 External main power source-on visual indicator.....	7
4.7 Fault condition visual indicator — Optional function.....	7
4.8 Visual indicator visibility.....	7
4.9 Smoke alarm signals.....	7
4.10 Test facility.....	7
4.11 Means of calibration.....	7
4.12 User-replaceable components.....	7
4.13 Main power source.....	8
4.13.1 General.....	8
4.13.2 Internal.....	8
4.13.3 External.....	8
4.14 Standby power source.....	8
4.14.1 General.....	8
4.14.2 Monitoring of standby power source.....	9
4.14.3 Standby power source low condition silence — Optional function.....	9
4.15 External power supply equipment.....	9
4.16 Battery connections.....	9
4.17 User-replaceable battery.....	9
4.17.1 General.....	9
4.17.2 Indication.....	9
4.18 Electrical safety.....	10
4.19 Battery — disconnect facility.....	10
4.20 Connection of external connectable devices.....	10
4.21 Terminals for external conductors.....	10
4.22 Protection against the ingress of foreign bodies.....	11
4.23 Interconnectable smoke alarms — Optional function.....	11
4.23.1 General.....	11
4.24 Alarm-silence facility — Optional function.....	11
4.25 Temporary disablement — Optional function.....	12
4.26 Radioactive material in type B smoke alarms.....	12
4.27 Smoke alarms with voice — Optional function.....	12
4.27.1 General.....	12
4.27.2 Voice messages.....	13
4.28 Smoke alarms using radio frequency links — Optional function.....	13
4.28.1 General.....	13
4.28.2 Response time.....	13
4.28.3 Radio frequency link range.....	13
4.28.4 Identification code verification.....	13
4.28.5 Environmental requirements for radio frequency interconnected smoke alarms.....	13

4.29	Response to slowly developing fires (drift compensation) — Optional function.....	14
4.30	Marking.....	14
	4.30.1 General.....	14
	4.30.2 Smoke alarm.....	14
4.31	Packaging.....	15
4.32	Hardware documentation.....	16
4.33	Additional requirements for software-controlled smoke alarms.....	17
	4.33.1 General.....	17
	4.33.2 Software documentation.....	17
	4.33.3 Software design.....	17
	4.33.4 Storage of programs and data.....	18
5	Tests.....	18
5.1	General.....	18
	5.1.1 Optional functions.....	18
	5.1.2 Atmospheric conditions for tests.....	18
	5.1.3 Operating conditions for tests.....	18
	5.1.4 Mounting arrangements.....	19
	5.1.5 Tolerances.....	19
	5.1.6 Measurement of response threshold value.....	19
	5.1.7 Provision for tests.....	19
	5.1.8 Test schedule.....	20
	5.1.9 Test report.....	20
5.2	Directional dependence.....	21
	5.2.1 Object of test.....	21
	5.2.2 Test procedure.....	21
	5.2.3 Requirements.....	21
5.3	Initial sensitivity.....	21
	5.3.1 Object of test.....	21
	5.3.2 Test procedure.....	22
	5.3.3 Requirement.....	22
5.4	Repeatability.....	22
	5.4.1 Object of test.....	22
	5.4.2 Test procedure.....	22
	5.4.3 Requirements.....	22
5.5	Air movement.....	22
	5.5.1 Object of test.....	22
	5.5.2 Test procedure.....	22
	5.5.3 Requirements.....	23
5.6	Dazzling.....	23
	5.6.1 Object of test.....	23
	5.6.2 Test procedure.....	23
	5.6.3 Requirements.....	23
5.7	Dry heat (operational).....	24
	5.7.1 Object of test.....	24
	5.7.2 Test procedure.....	24
	5.7.3 Requirements.....	24
5.8	Cold (operational).....	24
	5.8.1 Object of test.....	24
	5.8.2 Test procedure.....	25
	5.8.3 Requirement.....	25
5.9	Damp heat (operational).....	25
	5.9.1 Object of test.....	25
	5.9.2 Test procedure.....	25
	5.9.3 Requirements.....	26
5.10	Sulfur dioxide (SO ₂) corrosion.....	26
	5.10.1 Object of test.....	26
	5.10.2 Test procedure.....	26
	5.10.3 Requirements.....	27

5.11	Impact (operational)	27
	5.11.1 Object of test	27
	5.11.2 Test procedure	27
	5.11.3 Requirements	28
5.12	Vibration, sinusoidal (operational)	28
	5.12.1 Object of test	28
	5.12.2 Test procedure	28
	5.12.3 Requirements	29
5.13	Vibration, sinusoidal (endurance)	29
	5.13.1 Object of test	29
	5.13.2 Test procedure	29
	5.13.3 Requirements	30
5.14	Extended temperature (operational) — optional function	30
	5.14.1 Object of test	30
	5.14.2 Test procedure	30
	5.14.3 Requirement	31
5.15	Electromagnetic compatibility (EMC) immunity tests (operational)	31
5.16	Fire sensitivity	31
	5.16.1 Object of test	31
	5.16.2 Test procedure	31
	5.16.3 Requirements	33
5.17	Battery-low condition	33
	5.17.1 Object of test	33
	5.17.2 Test procedure	33
	5.17.3 Requirements	34
5.18	85 dBA Sound output — Optional function	34
	5.18.1 Object of test	34
	5.18.2 Method of test	34
	5.18.3 Requirements	35
5.19	70 dBA Sound output — Optional function	35
	5.19.1 Object of test	35
	5.19.2 Method of test	35
	5.19.3 Requirements	36
5.20	Sounder durability	36
	5.20.1 Object of test	36
	5.20.2 Test procedure	36
	5.20.3 Requirements	36
5.21	Interconnectable smoke alarms	37
	5.21.1 Object of test	37
	5.21.2 Test procedure	37
	5.21.3 Requirements	37
5.22	Smoke alarms using radio frequency links	37
	5.22.1 General	37
	5.22.2 Radio frequency range	38
	5.22.3 Failure of radio link tests	39
	5.22.4 Identification codes verification	39
	5.22.5 Environmental tests for radio frequency-interconnected smoke alarms	39
5.23	Alarm-silence facility	40
	5.23.1 Object of test	40
	5.23.2 Test requirement	40
	5.23.3 Requirements	40
5.24	Temporary disablement facility	40
	5.24.1 Object of test	40
	5.24.2 Test procedure	40
	5.24.3 Requirements	41
5.25	Variation in supply voltage	41
	5.25.1 Object of test	41
	5.25.2 Test procedure	41

5.25.3	Requirements.....	41
5.26	Polarity reversal.....	42
5.26.1	Object of test.....	42
5.26.2	Test procedure.....	42
5.26.3	Requirements.....	42
5.27	Standby power source.....	42
5.27.1	Object of test.....	42
5.27.2	Test procedure.....	42
5.27.3	Requirements.....	43
5.28	Electrical safety.....	43
5.28.1	Object of test.....	43
5.28.2	Test procedure.....	43
5.28.3	Requirements.....	44
5.29	Sequence timing for smoke alarms with voice.....	44
5.29.1	Object of the test.....	44
5.29.2	Test procedure.....	44
5.29.3	Measurements during conditioning.....	44
5.29.4	Requirements.....	44
6	Test report.....	44
Annex A	(normative) Smoke tunnel for response-threshold value measurement.....	46
Annex B	(normative) Test aerosol for response threshold value measurements.....	47
Annex C	(normative) Smoke-measuring instruments.....	48
Annex D	(normative) Apparatus for dazzling test.....	52
Annex E	(normative) Apparatus for impact test.....	53
Annex F	(normative) Fire test room.....	55
Annex G	(normative) Smouldering pyrolysis wood fire (TF2).....	58
Annex H	(normative) Glowing smouldering cotton fire (TF3).....	61
Annex I	(normative) Flaming plastics (polyurethane) fire (TF4).....	64
Annex J	(normative) Flaming liquid (<i>n</i>-heptane) fire (TF5).....	67
Annex K	(informative) Information concerning the construction of the smoke tunnel.....	70
Annex L	(informative) Information concerning the construction of the measuring ionization chamber.....	72
Annex M	(normative) Test configuration by using radio frequency shield test equipment.....	74
Annex N	(informative) Compensation for alarm sensitivity drift.....	76
Bibliography	80

Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 21 *Equipment for fire protection and firefighting*, Subcommittee SC 3, *Fire detection and alarm systems*.

This third edition cancels and replaces the second edition (ISO 12239:2010), which has been technically revised.

The main changes compared to the previous edition are as follows:

- This edition recognizes the introduction of combination and multi-criteria smoke alarms: smoke alarms that within the one housing provide multiple fire sensors.
- This edition recognizes the technology for open smoke alarms: smoke alarms where the detection of smoke occurs outside the smoke alarm enclosure.
- This edition permits the inclusion of a sensor within the smoke alarm that is unrelated to fire detection, e.g. carbon monoxide sensor.
- This edition introduces new requirements for:
 - a) smoke alarms that derive their main power from the mains or a mains-derived source;
 - b) external power supply equipment;
 - c) temporary disablement facility;
 - d) smoke alarms utilizing radio frequency links;
 - e) assessment of wall-mounted smoke alarms.

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