

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Alarm systems – Intrusion and hold-up systems –
Part 8: Security fog device/systems**

**Systèmes d'alarme – Systèmes d'alarme contre l'intrusion et les hold-up –
Partie 8: Systèmes/dispositifs générateurs de fumée**



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IEC 62642-8

Edition 1.0 2011-02

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

T

ICS 13.320

ISBN 978-2-88912-357-5

CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms, definitions and abbreviations	7
3.1 Terms and definitions	7
3.2 Abbreviations	8
4 Environmental	8
4.1 Environmental classification	8
4.2 Environmental tests	8
5 Access levels	9
6 Regulation requirements.....	9
6.1 General	9
6.2 Electrical safety	9
6.3 Safety data sheets	9
6.4 EMC requirements.....	9
6.5 Warning signs	9
6.6 Pressure vessels	9
7 Device/system parameters	10
7.1 Performance.....	10
7.2 Battery backup requirement.....	10
7.3 IP/IK rating	10
7.4 Wire free interconnections.....	10
8 General requirements	10
8.1 Tamper.....	10
8.2 Fog neutralisation.....	10
8.3 Discharge nozzle.....	10
8.3.1 Nozzle protection.....	10
8.3.2 Nozzle blocked	11
8.4 Fog eject limiter.....	11
8.5 Heating unit.....	11
8.6 Overheating	11
8.7 Accidental triggering.....	11
8.8 Isolation of the security fog system.....	11
8.9 Fixings	11
9 Operational requirements	11
9.1 Communication	11
9.1.1 Minimum information to be communicated	11
9.1.2 Non-critical faults.....	12
9.1.3 Optional signals.....	12
9.2 Fault monitoring	12
9.3 Power failure	12
9.4 Efficacy	12
9.5 Non-toxicity	12
9.6 Residue.....	12

10 Consumables	12
10.1 Replenishment	12
10.2 Formulation	12
10.3 Traceability	13
11 Marking	13
12 Documentation	13
13 Design, installation, operation and maintenance (informative)	13
Annex A (normative) Performance tests	14
Annex B (normative) Security fog system warning sign	20
Annex C (informative) Guidance on design, installation, operation and maintenance of the security fog system	21
Bibliography.....	23
Figure A.1 – Test chamber.....	18
Figure A.2 – Target.....	19
Figure A.3 – Partial target.....	19
Figure B.1 – Security fog system warning sign.....	20
Table A.1 – Fog output versus time elapsed, since first activation.....	16
Table A.2 – Correspondence between visibility, density and obscuration	16
Table B.1 – How to calculate the size of sign you need.....	20

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALARM SYSTEMS – INTRUSION AND HOLD-UP SYSTEMS –

Part 8: Security fog device/systems

FOREWORD

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This International Standard IEC 62642-8 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

This standard is based on EN 50131-8 (2009).

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

FDIS	Report on voting
79/327/FDIS	79/336/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.

A list of all parts of the IEC 62642 series can be found, under the general title *Alarm systems – Intrusion and hold-up systems*, on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability result 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.

INTRODUCTION

This part 8 of the IEC 62642 series of standards gives requirements for security fog device/systems used in intrusion and hold-up alarm systems. The other parts of this series of standards are as follows:

- Part 1 System requirements
- Part 2-2 Intrusion detectors – Passive infrared detectors
- Part 2-3 Intrusion detectors – Microwave detectors
- Part 2-4 Intrusion detectors – Combined passive infrared / microwave detectors
- Part 2-5 Intrusion detectors – Combined passive infrared / ultrasonic detectors
- Part 2-6 Intrusion detectors – Opening contacts (magnetic)
- Part 2-71 Intrusion detectors – Glass break detectors – Acoustic
- Part 2-72 Intrusion detectors – Glass break detectors – Passive
- Part 2-73 Intrusion detectors – Glass break detectors – Active
- Part 3 Control and indicating equipment
- Part 4 Warning devices
- Part 5-3 Interconnections – Requirements for equipment using radio frequency techniques
- Part 6 Power supplies
- Part 7 Application guidelines
- Part 8 Security fog devices/systems

This International Standard applies to a security fog system that is part of an Intruder and Hold-up Alarm System (I&HAS) and is used both as a security deterrent device for building security and as a crime reduction device for the protection of people.

This International Standard is intended to assist insurers, intruder alarm companies, customers and the police in understanding the principles and specification of a security fog system.

The purpose of a security fog system is to reduce the visibility in a protected area by the use of a non-toxic fog in order to form a barrier between the criminal and the criminal's intended target.

This International Standard is not intended to cover standalone or mobile security fog systems.

This International Standard has been designed to be flexible enough to encourage and encompass future developments in the field of security fog systems.

ALARM SYSTEMS – INTRUSION AND HOLD-UP SYSTEMS –

Part 8: Security fog device/systems

1 Scope

This part of the IEC 62642 series specifies the requirements for security fog systems as a part of an I&HAS. It covers application and performance and also gives the necessary tests and trials to ensure efficiency and reliability of such obscuration devices.

This International Standard also gives guidance on the criteria for design, installation, operation and maintenance of security fog systems.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60065:2001, *Audio, video and similar electronic apparatus – Safety requirements*

IEC 61000-6-3:2006, *Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments*

IEC 62599-1:2010, *Alarm systems – Part 1: Environmental test methods*

IEC 62599-2:2010, *Alarm systems – Part 2: Electromagnetic compatibility – Immunity requirements for components of fire and security alarm systems*

IEC 62642-1:2010, *Alarm systems – Intrusion and hold-up systems – Part 1: System requirements*

IEC 62642-5-3, *Alarm systems – Intrusion and hold-up systems – Part 5-3 : Interconnections – Requirements for equipment using radio frequency techniques*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62642-1, as well as the following apply.

3.1.1

confirmed intrusion

signals or messages emanating from two or more independent intrusion detectors indicating there is a high probability that a genuine intrusion or genuine attempted intrusion has occurred within a specified timeframe

3.1.2

obscuration

the reduction in visibility as a result of the activation of a security fog system