



CERTALARM SYSTEM

CERTIFICATION RULES

PART 2

Standards specified for various
products, systems and services

DOCUMENT NUMBER R-02

FOREWORD:

The CERTALARM Quality Mark has been established to provide a single Quality Mark, recognised throughout Europe, for products, systems and services in the Electrical and Electronic Fire & Life Safety and Security industries.

It provides assurance to the specifier and user that the product, system or service consistently meets all requirements of the relevant European or other specified standards.

The CERTALARM Mark is owned by CERTALARM AISBL and administered on their behalf by CERTALARM Management. The CERTALARM System is made available to Certification Bodies who wish to offer the CERTALARM Mark to clients desiring to demonstrate the compliance of their products, systems or services to the relevant standards by conformity testing, assessment of the quality management system applicable to the manufacture / provision of that product, system or service and associated inspection of the manufacture or service provision.

Whilst provision has been made for the expansion of the CERTALARM Scheme to include services and additional product types, appropriate standards will not be included in this document until preparations are made for operations to extend into that area.

AUTHORSHIP and COPYRIGHT

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OFFICIAL LANGUAGE

The official version of this document is English.

It may be translated as required into other languages, but in case of dispute, the English version will remain the definitive version.

LATEST VERSION

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CERTALARM System: Certification Rules - Part 2

Standards and associated EU regulations and directives specified for various products, systems and services.

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1 SCOPE

This document lists the standards or other technical specifications to be used for assessment of compliance of products, systems or services, along with identification of EU Regulations and Directives for which the manufacturer is responsible to make Declarations of Conformity order to qualify for granting of a license to apply the CERTALARM Mark.

NOTE: Priority is given to European Norms (EN standards), unless these are superseded by ISO / IEC standards. If no such standard is available, a suitable CEN / CENELEC Technical Specification (TS) will be selected, or, if appropriate, a recognised technical specification from another source will be referenced. Use of the term "standard" in this document should be understood to mean whichever of these has been determined as most appropriate and acceptable to the industry and marketplace for inclusion in the scheme.

2 NORMATIVE REFERENCES

EN ISO/IEC 17000	Conformity assessment – Vocabulary and general principles
CERTALARM System: Certification Rules - Part 1	Definition of procedures and conditions for testing and certification
CERTALARM System Certification Rules – Part 3	Specification for testing to be conducted at periodic surveillance of products and systems
CERTALARM System: Certification Rules - Part 4	Procedures for confirmation of continued consistency of results

3 DEFINITIONS and ABBREVIATIONS

For the purposes of these regulations, the definitions given in EN/ISO 17000 "Conformity assessment – Vocabulary and general principles" should be used, along with the those included in CERTALARM System: Certification Rules – Part 1: Definition of procedures and conditions for testing and certification.

Additional Abbreviations:

CEA Comité Européen des Assurances (the European insurance and reinsurance federation)

4 CERTIFICATION INCLUDING OTHER STANDARDS

4.1 Additional standards

Provided that they do not conflict with the requirements of mandated standards, a manufacturer may request that the requirements of additional standards are also tested – eg to corresponding IEC / ISO standards – and the CERTALARM certificate endorsed accordingly (or a separate non-CERTALARM certificate issued).

The product shall always be tested to ensure compliance with the relevant standard(s) specified in clause 6.

4.2 Where no standard is listed

Where no relevant product standard is listed in this document AND no relevant European or International standard exists, a relevant national standard may be used as the basis for CERTALARM certification, with the prior agreement of CERTALARM.

Such standards will be added to this listing, as appropriate

5 OPTIONS WITH REQUIREMENTS WITHIN THE STANDARD

Where a standard lists options with requirements, the certificate shall list all options tested. Where alternative versions of a product are manufactured with different options, this shall be unambiguously stated.

6 PRODUCTS, SYSTEMS and SERVICES

6.1 FIRE & LIFE SAFETY ALARM SYSTEMS PRODUCTS

6.1.1 General

Periodic surveillance of products will be carried out by re-testing of samples supplied as specified in clause 6.2.7 of “CERTALARM System: Certification Rules - Part 1: Definition of procedures and conditions for testing and certification” and “CERTALARM System: Certification Rules - Part 3: Specification for testing to be conducted at periodic surveillance of products and systems” at a maximum interval of two years, unless otherwise specified below, for each individual standard. This may be extended, with the agreement of the Contracted Certification body, for up to six months to permit completion of a product revision.

This interval may be reduced if major non-compliances are found, with the agreement of CERTALARM Management.

Note: a “major” non-compliance is one that could affect the integrity of the product, system or service.

Re-testing will be confined to critical requirements, as specified in CERTALARM System Rules – Part 3: Specification for testing to be conducted at periodic surveillance of products and systems

If the specified surveillance interval exceeds two years, an intermediate visual inspection of the product and bill of materials shall be carried out as part of factory process control (see “CERTALARM System: Certification Rules - Part 1: Definition of procedures and conditions for testing and certification” clause 6.2.8).

Any of these requirements are superseded by the requirements of an applicable directive or regulation if more stringent.

6.1.2 Products for which a European standard or specification exists

Product	Standard	Comments
Control and indicating equipment	EN54-2:1997 + AC:1999 +A1:2006	
Power supply equipment	EN54-4:1997 +AC:1999+A1:2002+A2:2006	Applicable to all PS integrated into other products
Fire alarm devices - Sounders	EN54-3:2001+A1:2002+A2:2006	
Heat detectors – point detectors	EN54-5:2000 +A1:2002	
Smoke detectors – point detectors using scattered light, transmitted light or ionization	EN54-7:2001 +A1:2002+A2:2006	
Flame detectors – point detectors	EN54-10:2002 +A1:2005	
Manual call points	EN54-11:2001 +A1:2005	
Smoke detectors – line detectors using an optical beam	EN 54-12:2002	

Product	Standard	Comments
Multi-sensor detectors, which respond to smoke and heat	CEA Document 4021:2003	Some multi-sensor detectors are also certified as dual detectors to EN54-5 and EN54-7. Smoke detectors with more than one smoke sensor are certified to EN54-7 A2.
Voice alarm control and indicating equipment	EN54-16:2008	
Short-circuit isolators	EN54-17:2005 + AC:2007	
Input/Output devices	EN54-18:2005 + AC:2007	
Aspirating smoke detectors	EN54-20:2006 + AC:2008	
Components of voice alarm systems - loudspeakers	EN54-24:2008	
Components using radio links	EN54-25 :2008	EN54-25 should be applied in conjunction with normal device standard where radio link is applicable.
Smoke alarm devices	EN14604:2005 + AC:2008	
Components for gas extinguishing systems – electrical automatic control and delay device	EN12094-1:2003	
Components for gas extinguishing systems – manual triggering and stop devices	EN12094-3:2003	This is included in the CERTALARM scheme only if device is electronically operated.

6.1.3 Additional standards for products for which no European standard exists

These products may be certified to any of relevant standards quoted.

Additional products will be added to listing as required, with the agreement of CERTALARM

Product	Standard	Comments
Evacuation Control Panel CMSI	NF S 61-934:1991	France

Product	Standard	Comments
"Fireman's Panel"	OE Norm F3031:1996	Austria
	NEN 2535	Netherlands Functionality may be integrated into CIE.
	DIN 14661	Germany
	DIN 14662 (Repeater panel)	Germany
	SS 3654 (+T1)	Sweden
	SN 054 002:1999	Switzerland

6.2 Fire & Life Safety Alarm Systems

6.2.1 General

Periodic surveillance of system components shall be carried out by verification of the ongoing certified status of all individual components, at intervals of two years unless otherwise specified below for each individual standard.

This may be extended, with the agreement of the Contracted Certification body, for up to six months to permit completion of a product revision.

This interval may be reduced if major non-compliances are found, with the agreement of CERTALARM Management.

Note: a "major" non-compliance is one that could affect the integrity of the system.

If the specified surveillance interval exceeds two years, an intermediate visual inspection of the product and bill of materials shall be carried out as part of factory process control (see "CERTALARM System: Certification Rules - Part 1: Definition of procedures and conditions for testing and certification" clause 6.2.8).

Any of these requirements are superseded by the requirements of any directive or regulation if more stringent.

6.2.2 European standard or specification

System	Standard	Comments
Fire detection and fire alarm systems (compatibility assessment of system components)	EN54-13:2005	May include components certified to National standards, or to which no standards / certification is applicable. Certificate to detail all products assessed

6.3 SECURITY INTRUDER & HOLD UP ALARM SYSTEM PRODUCTS

6.3.1 General

Any device incorporating a local power supply connected to the mains shall be tested as defined in 6.3.4 in addition to the relevant product standard.

Periodic surveillance of products will be carried out by re-testing of samples supplied as specified in clause 6.2.7 of "CERTALARM System: Certification Rules – Part 1: Definition of procedures and conditions for testing and certification" at a maximum interval according to security grade, as shown in Table 1, unless otherwise specified below for each individual standard.

This may be extended, with the agreement of the Contracted Certification body, for up to six months to permit completion of a product revision.

Table 1 – Surveillance interval by Security Grade

	Grade 1	Grade 2	Grade 3	Grade 4
Surveillance interval	4 years	2 years	2 years	2 years

This interval may be reduced if major non-compliances are found, with the agreement of CERTALARM Management.

Note: a "major" non-compliance is one that could affect the integrity of the product, system or service.

Testing will be confined to critical functional requirements, as specified in CERTALARM System Rules – Part 3: Specification for testing to be conducted at periodic surveillance of products and systems.

Where the specified surveillance interval exceeds two years, an intermediate visual inspection of the product and bill of materials shall be carried out as part of factory process control (see "CERTALARM System: Certification Rules - Part 1: Definition of procedures and conditions for testing and certification" clause 6.2.8).

Any of these requirements are superseded by the requirements of any applicable directive or regulation if more stringent.

6.3.2 Generic System Standard

EN50131-1:2006 +A1:2009 provides the generic requirements for compliance of any component intended for use in an intrusion or hold up alarm system, for which there is no specific standard. It does NOT include test procedures, and is not suitable for assessment of compatibility of system components.

Compliance to EN50131-1:2006 Annex A - Environmental conditions for Scandinavian countries - must be identified on certification

6.3.3 Products for which a European standard or specification exists

Product	Standard	Comments
Control and indicating equipment	EN50131-3:2009	EN50136 series standards apply to alarm transmission equipment integrated with CIE

Product	Standard	Comments
Power supply equipment	EN50131-6:2008	Applicable to all PS integrated into other products except where excluded by product standard
Passive infrared detectors	EN50131-2-2:2008	
Microwave detectors	EN50131-2-3:2008	
Combined passive infrared and microwave detectors	EN50131-2-4:2008	
Combined passive infrared and ultrasonic detectors	EN50131-2-5:2008	
Opening contacts (magnetic)	EN50131-2-6:2008	
Glass break detectors (acoustic)	TS50131-2-7-1:2009	
Glass-break detectors passive)	TS50131-2-7-2:2009	
Glass-break detectors (active)	TS50131-2-7-3:2009	
Warning devices	EN50131-4:2009	Includes Power supply requirements and tests
Interconnections equipment using radio frequency techniques	EN50131-5-3:2005 + A1:2008	EN50131-5-3 should be applied in conjunction with normal device standard where radio link is applicable.
Security fog devices and systems	EN50131-8:2009	Note modification of battery standby requirements by EN50131-8

6.3.4 Additional standards for products for which no European standard exists

May be used for specific products with agreement of CERTALARM.
To be added to listing as required.

6.4 SECURITY INTRUDER & HOLD UP ALARM SYSTEMS

Not currently included in scheme

6.5 SECURITY – CCTV PRODUCTS AND SYSTEMS

Not currently included in scheme

6.6 SECURITY – ACCESS CONTROL PRODUCTS AND SYSTEMS

Not currently included in scheme

6.7 SECURITY - OTHER PRODUCTS AND SYSTEMS

Not currently included in scheme

6.8 ALARM TRANSMISSION SYSTEMS

6.8.1 General

Any device incorporating a local power supply connected to the mains shall be tested as defined in 6.3.4 in addition to the relevant product standard.

Periodic surveillance of system components will be carried out by re-testing of samples supplied as specified in clause 6.2.7 of "CERTALARM System: Certification Rules - Part 1: Definition of procedures and conditions for testing and certification" at a maximum interval according to security grade, as shown in Table 2, unless otherwise specified below for each individual standard.

This may be extended, with the agreement of the Contracted Certification body, for up to six months to permit completion of a product revision.

Table 2 – Surveillance interval by Application / Security Grade

Application:	FIRE	SECURITY			
Security Grade:		Grade 1	Grade 2	Grade 3	Grade 4
Surveillance interval	2 years	4 years	3 years *	2 years	2 years

* Unless required for a product change or revision of a Listed Standard, a certificate renewal falling between two surveillance tests shall not necessitate additional testing.

This interval may be reduced if major non-compliances are found, with the agreement of CERTALARM Management.

Note: a "major" non-compliance is one that could affect the integrity of the product, system or service.

Re-testing will be confined to critical functional requirements, as specified in CERTALARM System Rules – Part 3: Specification for testing to be conducted at periodic surveillance of products and systems.

Where the specified surveillance interval exceeds two years, an intermediate visual inspection of the product and bill of materials shall be carried out as part of factory process control (see "CERTALARM System: Certification Rules - Part 1: Definition of procedures and conditions for testing and certification" clause 6.2.8).

Any of these requirements are superseded by the requirements of any applicable directive or regulation if more stringent.

6.8.2 Generic System Standards

EN50136-1-1:1998 + A2:2008 provides requirements for a complete Alarm Transmission system.
 EN50136-2-1:1998 +A1:2001 provides generic requirements for Alarm transmission Equipment.
 These should be read in conjunction with relevant system and equipment requirements for the relevant communications method used, as identified below

6.8.3 Products for which a European standard or specification exists

Communications method, etc.	Standard	Comments
Dedicated alarm paths	EN50136-1-2:1998	Specific system requirements
	EN50136-2-2:1998	Specific product requirements
Digital communicators using PSTN	EN50136-1-3:1998	Specific system requirements
	EN50136-2-3:1998	Specific product requirements
Voice communicators using PSTN	EN50136-1-4:1998	Specific System requirements
	EN50136-2-4:1998	Specific equipment requirements
Packet switched network PSN	EN50136-1-5:2008	

<i>Communications method, etc.</i>	<i>Standard</i>	<i>Comments</i>
Fire alarm transmission systems and Fault warning routing equipment	EN54-21:2006	

6.9 FIRE & LIFE SAFETY AND SECURITY ALARM SYSTEM SERVICES

Not yet included in scheme