ISO 7240-13:2020 (E)

Fire detection and alarm systems — Part 13: Compatibility assessment of system components

Contents

	Forew	Foreword			
	Introduction				
1	Scope	Scope			
2	Norma	Normative references			
3	Torms	Terms, definitions and abbreviated terms			
5					
	3.1 3.2	Definitions Abbreviated terms			
	3.2	Abbreviated terms			
4	Requirements				
	4.1	Conformance			
	4.2	General system requirements			
	4.3	Transmission path(s) (TP)			
	4.3.1	General			
	4.3.2	TP using wires			
	4.3.3	TP using radio frequency links			
	4.3.4	TP using optical fibres			
	4.3.5	Network TP			
5 Assessment methods and tests		sment methods and tests			
	5.1	General			
	5.2	Provision of equipment and supporting information and tools			
	5.3	Configuration			
	5.3.1	General			
	5.3.2	Configuration at field level for assessment			
	5.3.3	Configuration at control level for network assessment			
	5.4	Standard atmospheric conditions for testing			
	5.5	Functional test for compatibility assessment on field level			
	5.5.1	The objective of the test			
	5.5.2	Test schedule			
	5.5.3	Functional tests for compatibility in the different conditions			
	5.5.3.1	Fire alarm condition			
	5.5.3.1.1	Procedure			
	5.5.3.1.2	Criteria of acceptance			
	5.5.3.2	Voice alarm condition			
	5.5.3.2.1	Procedure			
	5.5.3.2.2	Criteria of acceptance			
	5.5.3.3	Fault warning condition: interruption or short circuit on a transmission path			
	5.5.3.3.1	Interruption on a transmission path			
		Procedure			
		Criteria of acceptance			
	5.5.3.3.2				
		Procedure			
		Criteria of acceptance			
	5.5.3.3.3	·			
		Procedure			
		Criteria of acceptance			
	5.5.3.4	Removal of detachable components			
	5.5.3.4.1	Procedure			
	5.5.3.4.2	Criteria of acceptance			
		·· · · · · · · · · · · · · · · · · · ·			

	5.5.3	3.5	Reduction of power supply voltage
	5.5.3		Procedure
		3.5.2	Criteria of acceptance
	5.5.3		Disablement condition
		3.6.1	Procedure
		3.6.2	Criteria of acceptance
	5.5.3		Test condition
		3.7.1	Procedure Criteria of acceptance
5.5.3.7.2		0.7.2	Criteria of acceptance
	5.6 5.6.1	ı	Functional tests for connectability assessment on field level The objective of the test
	5.6.2		Test schedule
	5.6.3		Functional test for connectability
	5.6.3		Procedure
	5.6.3		Criteria of acceptance
_	0.0.0		•
6		Test re	eport
7		Markir	ng
8		Data	
	8.1		General
	8.2		Documentation for compatibility
	8.3		Documentation for connectability
	8.4		Software documentation
Annex	κA	(inforr	native) Example of levels used in FDAS
Annex	кВ	(inforr	mative) Classification of functions of the FDAS
	B.1		General
	B.2		Fire detection function
	B.3		Fire alarm to occupants in the premises
	B.4		Fire alarm to summon external assistance (usually the fire brigade)
	B.5		Activation of fire protection function
	B.5.	-	Equipment directly triggered by the FDAS
	B.5.2	2	Systems driven by the information coming from the FDAS
	B.6		Remote indication 1 (remote panels, fire brigade panels, etc.)
	B.7 B.8		Remote indication 2 (printers, interface to building management system, etc.) Input function
	в.о В.9		Output function
	B.10	1	Devices used to connect transmission paths (gateway, data switch, etc.)
Annex			native) Example methodology for theoretical analysis
		(,
	C.1 C.2		Introduction Method of test
	C.2.	4	General
	C.2.		List of characteristics
	C.2.2.1		Mechanical connections
	C.2.2		Power supply and distribution analysis
			Voltage range
			Current
		2.2.3	Supply characteristics
			Power supply voltage range
		2.2.5	Fault performance
	C.2.2	2.3	Data exchange analysis
			General
	C.2.2	2.3.2	Transmission characteristics
			General
			Voltage range
			Current
			Timing
			Tolerances
			Fault performance
	C.2.2	2.3.3	Transmission protocol(s)

C.2.2.4 Functionality C.2.2.4.1 General C.2.2.4.2 Received data

C.2.2.4.3 Transmitted data

Annex D (normative) Software design documentation

Annex E (informative) Flowchart for assessment of compatibility/connectability

Annex F (informative) Functions of a fire detection and alarm systems

Page count: 26