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O.ref. : S2502059
Y.ref. : The quote signed on April 10

Test report LAB/BFS/DD/445 - 2025.12.15

Applicant:	Company : PARADOX SECURITY SYSTEMS LTD Address : 780 INDUSTRIAL BOULEVARD ZIP/City : ST EUSTACHE QUEBECJ7R 5V3 Country : CANADA		
Mission :	Laboratory tests : Submission of a new variant in order to have it marked CE-CPR		
Products submitted to the tests:			
Nature	Manufacturer	Brand	Reference
Optical smoke alarm device	EVERDAY TECHNOLOGY CO. LTD	Paradox	SD760M3 SD760M10
Specifications:			
EN14604:2005/AC:2008 Smoke alarm devices			
Test history	Date (for period, detail of the logs available on request)		
Reception of the material	2025.07.16		
Reception of the documents	From 2025.10.23 to 2025.11.14		
Test dates and place	From 2025.10.09 to 2025.11.24 in ANPI LLN		

This report contains 14 pages

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The signer of the present report declares to have accomplished the mission in all impartiality.
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Authorized by

J. Mathy
Project Manager



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B. PRODUCT DESCRIPTION

SD760M3

Smoke alarm device:

Brand on the product	Paradox
Brand on the packaging	Paradox
Supply	Battery
Detection mode	Optical
Batteries	replaceable
Battery	1 x 3V for Detector and RF module
Delivered battery	Panasonic CR123A
Delivered battery capacity	1100 mAh
Individual alarm indicator	Yes
For use in leisure accommodation vehicles	No
Interconnectable	No
Alarm disabling or desensitizing mean (Alarm silence facility, optional)	No
Interconnectable with other smoke alarm devices (wireless)	No
Temporary muting facility	Yes
Other function not covered by EN 14604	RF module 868MHz
CE-CPR Certificate	1134-CPR-xxx
Dop	/

Nature of the modification with respect to the original product:	MD760NSB1
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- Label
- Manual
- Packaging

Item	PCB reference	SW ver.
SD760M3	20250324 NP0368---Ver.2.0	Ver 1.3



					
Item	PCB reference		SW ver.		
Rf module	SMK3M 868 MHz 312-6010-991		1.01		
					

Identification	Designation	Reference	Rev	Issue
SD760M3				
Manual	Paradox SD760M3 : Installation manual		1.0	---
Label	SD760M3_LABEL	---	---	---
Packaging	SD760M(common)	---	---	---
Software	Event_Process.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/Event_Process.c	1.3	2025.08.15
	Smoke_main.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/SD760_Smoke_CO_main.c	1.3	2025.08.15
	Smoke_Sensor.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/Smoke_Sensor.c	1.3	2025.08.15
	UART_Protocol.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/UART_Protocol.c	1.3	2025.08.15
BOM	MD760NSB1	RD0760-061601	2.0	2025.08.13
Schematic	Smoke and Heat Alarm with UART	RD0760-031601 (MD760NSB1)	2.0	2025.03.22
Layout PCB	Bottom Layer	- - -	---	---
	Silkscreen Bottom	- - -	---	---
	Silkscreen Top	- - -	---	---
	Top Layer	- - -	---	---
Mechanical	MD368&MD760 (td79-MD368-batcov)	HL0368-70000,10	1.0	2015.05.01
	td79-MD368-button	---	---	---
	MD368S/SH B1 B2/T B2/T B3 (td79-MD368S-BK)	HL0368-20000,10	1.0	2015.05.01
	MD368S/SH B1&MD760CS B1 (td79-MD368S-dn-NT)	HL0368-10000,10	1.0	2016.12.05
	MD760 (td86-MD760-CV-UL)	HL0760-80000	1.0	2021.06.29
	td86-up	---	---	---
PCB RF Module : SMK3M 868 MHz				
BOM	Bill of Materials	SMK3M-868 (PCB: 312-6010-991) ECO#A008 SMK3M-914 ECO#A009 (Page 2)	---	2025.01.15
Schematic	SMK3M_TOP	312-6010	991	2025.01.15
	SMK3M_MICRO	312-6010	991	2025.01.15
	SMK3M_POWER	312-6010	991	2025.01.15



	SMK3M_SERIAL_FLASH	312-6010	991	2025.01.15
	SMK3M_RF_MODULE	312-6010	991	2025.01.15
	SMK3M_RF_ANTENNA	312-6010	991	2025.01.16
Layout PCB	TOP (FRONT)	312-6010-991	---	2024.11.07
	All views from primary side SMK3M	312-6010-991	- - -	2025.11.05

**SD760M10**

Smoke alarm device:

Brand on the product	Paradox
Brand on the packaging	Paradox
Supply	Battery
Detection mode	Optical
Batteries	Non-replaceable for detector Replaceable for RF Module
Battery	2 x 1,5V for detector 1 x 3V for RF module
Delivered battery	Energizer L91 Lithium Panasonic CR123A
Delivered battery capacity	3000 mAh 1100 mAh
Individual alarm indicator	Yes
For use in leisure accommodation vehicles	No
Interconnectable	No
Alarm disabling or desensitizing mean (Alarm silence facility, optional)	No
Interconnectable with other smoke alarm devices (wireless)	No
Temporary muting facility	Yes
Other function not covered by EN 14604	RF module 868MHz
CE-CPR Certificate	1134-CPR-xxx
Dop	/

Nature of the modification with respect to the original product:	MD760NSB3
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- Label
- Manual
- Packaging

Item	PCB reference	SW ver.
SD760M10	20250324 NP0368---Ver.2.0	Ver 1.3



					
Item	PCB reference		SW ver.		
RF module	SMK3M 868 MHz 312-6010-991		1.01		
					

Identification	Designation	Reference	Rev	Issue
SD760M10				
User Manual	Paradox SD760M10: Installation manual		1.0	---
Label	SD760M10_LABEL a	---	---	---
	LABEL B_rev01	---	---	---
Package	SD760M(common)	---	---	---
Software	Event_Process.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/Event_Process.c	1.3	2025.08.15
	Smoke_main.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/SD760_Smoke_CO_main.c	1.3	2025.08.15
	Smoke_Sensor.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/Smoke_Sensor.c	1.3	2025.08.15
	UART_Protocol.c	C:/MD760 source code (For ANPI 59 degrees MD368)/MD760_V1.3_20250509-for 59 smoke only/UART_Protocol.c	1.3	2025.08.15
BOM	MD760SB3	RD0760-061603	2.0	2025.08.13
Schematic	Smoke and Heat Alarm with UART	RD0760-031603 (MD760NSB3)	2.0	2025.03.22
PCB Layout	Bottom Layer	- - -	---	---
	Silkscreen Bottom	- - -	---	---
	Silkscreen Top	- - -	---	---
	Top Layer	- - -	---	---
Mechanical	MD368&MD760 (td79-MD368-batcov)	HL0368-70000,10	1.0	2015.05.01
	td79-MD368-button	---	---	---
	MD368S/SH B1 B2/T B2/T B3 (td79-MD368S-BK)	HL0368-20000,10	1.0	2015.05.01
	MD368ST/SHT&MD760CS B3 (td79-MD368ST-dn)	HL0368-10200,01	1.0	2016.12.05
	MD760 (td86-MD760-CV-UL)	HL0760-80000	1.0	2021.06.29
	td86-up	---	---	---
PCB RF Module : SMK3M 868 MHz				
BOM	Bill of Materials	SMK3M-868 (PCB: 312-6010-991) ECO#A008 SMK3M-914 ECO#A009 (Page 2)	---	2025.01.15
Schematic	SMK3M_TOP	312-6010	991	2025.01.15
	SMK3M_MICRO	312-6010	991	2025.01.15



	SMK3M_POWER	312-6010	991	2025.01.15
	SMK3M_SERIAL_FLASH	312-6010	991	2025.01.15
	SMK3M_RF_MODULE	312-6010	991	2025.01.15
	SMK3M_RF_ANTENNA	312-6010	991	2025.01.16
Layout PCB	TOP (FRONT)	312-6010-991	---	2024.11.07
	All views from primary side SMK3M	312-6010-991	- - -	2025.11.05



C. TESTS ACCORDING TO EN14604

Unless otherwise agreed and stipulated in this report, the decision rules follow those outlined in the test standard. Results apply solely to the sample as received, and, if applicable, to the data as received.

C.1 SUMMARY OF TEST RESULTS

P: Pass	NA: Not Applicable	NTR: No test required, see result on base product
F: Fail	NP: Not Performed	

Subject	§	SD760 M10	SD760 M3	Rem.
Requirements	4			
Individual alarm indicator (optional)	4.2	NTR	NTR	2)
Mains-on indicator	4.3	NA	NA	/
Connection of external ancillary devices	4.4	NTR	NTR	2)
Means of calibration	4.5	NTR	NTR	2)
User replaceable components	4.6	NTR	NTR	2)
Normal power source	4.7	NTR	NTR	2)
Standby power source	4.8	NA	NA	/
Electrical safety requirements	4.9	NTR	NTR	2)
Routine test facility	4.10	NTR	NTR	2)
Terminals for external conductors	4.11	NA	NA	/
Smoke alarm signals	4.12	NTR	NTR	2)
Battery removal indication	4.13	NA	NTR	2)
Battery connections	4.14	NA	NTR	2)
Battery capacity	4.15	NTR	NTR	2)
Protection against the ingress of foreign bodies	4.16	NTR	NTR	2)
Additional requirements for software controlled smoke alarms	4.17	NTR	NTR	2)
Inter-connectable smoke alarms	4.18	NA	NA	/
Marking and data	4.19	P	P	/
Tests	5			
Repeatability	5.2	NTR	NTR	2)
Directional dependence	5.3	NTR	NTR	2)
Initial sensitivity	5.4	P	NTR	1)
Air movement	5.5	NTR	NTR	2)
Dazzling	5.6	NTR	NTR	2)
Dry heat	5.7	NTR	NTR	2)
Cold (operational)	5.8	NTR	NTR	2)
Damp heat (operational)	5.9	NTR	NTR	2)
Sulphur dioxide (SO ₂) corrosion	5.10	NTR	NTR	2)
Impact	5.11	NTR	NTR	2)
Vibration (operational)	5.12	NTR	NTR	2)
Vibration (endurancel)	5.13	NTR	NTR	2)
EMC immunity tests (operational)	5.14			
Mains supply voltage dips and short interruptions	5.14 a)	NA	NA	/
Electrostatic discharge	5.14 b)	P	NTR	/
Radiated electromagnetic fields	5.14 c)	P	NTR	/
Conducted disturbances induced by electromagnetic fields	5.14 d)	NA	NA	/
Fast transient bursts	5.14 e)	NA	NA	/



Subject	§	SD760 M10	SD760 M3	Rem.
Slow high-energy voltage surges	5.14 f)	NA	NA	/
Fire sensitivity	5.15			
Smouldering pyrolysis wood fire (TF2)	5.15	NTR	NTR	2)
Glowing smouldering cotton fire (TF3)	5.15	NTR	NTR	2)
Flaming plastics (polyurethane) fire (TF4)	5.15	NTR	NTR	2)
Flaming liquid (n-heptane) fire (TF5)	5.15	NTR	NTR	2)
Battery fault warning	5.16	NTR	NTR	2)
Sound output	5.17	NTR	NTR	2)
Sounder durability	5.18	NTR	NTR	2)
Inter-connectable smoke alarms	5.19	NA	NA	/
Alarm silence facility (optional)	5.20	NTR	NTR	2)
Variation in supply voltage	5.21	NTR	NTR	2)
Battery reversal	5.22	NA	NTR	2)
Back-up power source	5.23	NA	NA	/
Electrical safety	5.24	NTR	NTR	2)
Alarms suitable for installations in leisure accommodation vehicles	Annexe L	NA	NA	/

Remarks :

- 1) The test was performed on 5 samples.
- 2) The test was performed in the test report BFS/BFS/DD/286 – Add10



C.2 TEST DETAILS

SD760M10

§4.19	MARKING AND DATA	
4.19.1	Smoke alarm marking	
	In indelible character :	P
4.19.1.a	EN14604: 2005	P
4.19.1.b	the name or trade mark and address of the manufacturer or supplier:	P
4.19.1.c	the date of manufacture or a batch number	P
4.19.1.d	the manufacturer's recommended date for replacement, subject to normal, regular maintenance:	P
4.19.1.e	Smoke alarms incorporating user replaceable batteries :	
	- the type or numbers of batteries recommended by the manufacturer	NA
	- an instruction to the user "Test the alarm for correct operation using the test facility, whenever the battery is replaced" that is visible during the operation of changing the batteries	NA
4.19.1.f	when non-replaceable batteries are used, the following shall be visible during normal use: "WARNING – Battery not replaceable – See instruction manual":	P
4.19.2	Packaging marking	
	The trefoil symbol if the smoke alarm employs a radionuclide	NA
4.19.3	Data	
	-Instructions on sitting, installation and maintenance are supplied with the detector:	P
	- The information provided with the detector shall include specific guidance on changing the batteries and any advice necessary to ensure that the battery is properly connected:	NA
	- a recommendation that the alarm is tested after the batteries replacement:	NA
	- For smoke alarms incorporating non-replaceable batteries, action to be taken if a battery fault warning is emitted:	P
	- for inter-connectable smoke alarms, the maximum number that may be interconnected and details of suitable cables:	NA
	- Information for smoke alarms intended for connection to mains supplies :	
	. A warning to the hazards associated with mains voltage.	NA
	. recommendation to install in accordance with appropriate electrical regulations.	NA
	- Information if the smoke alarm is also suitable for use in leisure accommodation vehicles	NA

**SD760M1**

§4.19	MARKING AND DATA	
4.19.1	Smoke alarm marking	
	In indelible character :	P
4.19.1.a	EN14604: 2005	P
4.19.1.b	the name or trade mark and address of the manufacturer or supplier:	P
4.19.1.c	the date of manufacture or a batch number	P
4.19.1.d	the manufacturer's recommended date for replacement, subject to normal, regular maintenance:	P
4.19.1.e	Smoke alarms incorporating user replaceable batteries :	
	- the type or numbers of batteries recommended by the manufacturer	P
	- an instruction to the user "Test the alarm for correct operation using the test facility, whenever the battery is replaced" that is visible during the operation of changing the batteries	P
4.19.1.f	when non-replaceable batteries are used, the following shall be visible during normal use: "WARNING – Battery not replaceable – See instruction manual":	NA
4.19.2	Packaging marking	
	The trefoil symbol if the smoke alarm employs a radionuclide	NA
4.19.3	Data	
	-Instructions on sitting, installation and maintenance are supplied with the detector:	P
	- The information provided with the detector shall include specific guidance on changing the batteries and any advice necessary to ensure that the battery is properly connected:	P
	- a recommendation that the alarm is tested after the batteries replacement:	P
	- For smoke alarms incorporating non-replaceable batteries, action to be taken if a battery fault warning is emitted:	NA
	- for inter-connectable smoke alarms, the maximum number that may be interconnected and details of suitable cables:	NA
	- Information for smoke alarms intended for connection to mains supplies :	
	. A warning to the hazards associated with mains voltage.	NA
	. recommendation to install in accordance with appropriate electrical regulations.	NA
	- Information if the smoke alarm is also suitable for use in leisure accommodation vehicles	NA



§5.4. INITIAL SENSITIVITY

The orientation 0° is arbitrarily fixed with the alarm led in front of the window of the smoke tunnel, the air flow coming from the right side and the detector is rotated clockwise when viewed from above.

The samples have been tested in an orientation of 225°

SD760M10

Batch No / S/N / Manuf. Date	Sample	m	Mmin	Mmax	Mavg	No	Sample	m
#1	A	0,26	0,26	0,36	0,3008	1	A	0,26
#2	B	0,31	Mmax/Mavg			2	C	0,29
#3	C	0,29	Requ.			3	D	0,30
#4	D	0,30	1,19			4	B	0,31
#5	E	0,36	<= 1,33			5	E	0,36
			Result.					
			P					
			Mavg/Mmin					
			1,2					
			Requ.					
			<=1,5					
			Result.					
			P					

§5.14 B). ELECTROSTATIC DISCHARGE

EN 50130-4:1995 + A1:1998 + A2:2003

The test has been performed according to IEC 61000-4-2:1995 + A1:1998 + A2:2001 with the level requested by EN 50130-4:1995 + A1:1998 + A2:2003 §9.

	Contact	Air
Voltages	2, 4 and 6 kV	2, 4 and 8 kV
Selected points	10	10
Number of discharges per point	10	10
Polarity	+/-	+/-
Interval between discharges	≥1 s	≥1 s

Orientation Mmax :	225 °								
	m								
initial sensitivity	0,31								
After conditioning	0,28								
Quotient	1,1								
Requ.	<=1,6								
Result.	P								
There shall be no damage, malfunction or change of status due to the conditioning									P



§5.14 c). RADIATED ELECTROMAGNETIC FIELDS

EN 50130-4:1995 + A1:1998 + A2:2003

The test has been performed according to IEC 61000-4-3:2006 with the level requested by EN 50130-4:1995 + A1:1998 + A2:2003 §10.

Frequency range	80 – 2000 MHz
Field strength	10 V/m
AM	80%, 1 kHz
PM	1 Hz
Dwell time	3 s

	Front Side	Left Side	Bottom Side
AM polarity V	P		
AM polarity H		P	P
PM polarity V	P		
PM polarity H		P	P

Orientation Mmax :	225 °								
	m								
initial sensitivity	0,30								
After conditioning	0,30								
Quotient	1,0								
Requ.	<=1,6								
Result.	P								
There shall be no damage, malfunction or change of status due to the conditioning									
									P

D. MODIFICATIONS OF THE PRODUCT DURING THE TESTS BY THE APPLICANT

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