

FEATURES:

- SELF-POWERED Stand alone or central triggered based system
- Very low energy consumption
- Activation through single or double confirmation
- No toxic and intense incense based smoke
- No dust or residuals left
- Permanent smoke presence (1 hour minimum)

1. INSTALLATION HINTS



2. LED AND SIREN KEY

LED	State	Action
Green	Alarm not activated	On for 5 seconds
Blue	Missing, used or deadline Cartridge/ card not recognized	Flash 3 times every 30 seconds
	Battery low	Flash 1 time every 30 seconds
Red	Alarm activated	On for 5 seconds
	Alarm occurred	Flash 1 time every 30 seconds
	Pre Alarm occurred	Flash 1 time every second**

	State	Action
SIREN	Alarm not activated	2 tones
	Forced activation*	2 tones
	Alarm activated	1 tone
	Alarm occurred	Continuous sound for 2 minutes
	Pre Alarm occurred	1 tone every second for 20 seconds**

* forced activation means try to activate system while input (SENS, ALM is open, DIP4 ON)

** first 20 sec siren tone will occur, after 20 sec siren stops, RED LED will blink for additional 20 sec

3. WIRING AND PINOUT

J5: Battery pack connector

LED: led connector

SIR: Internal siren connector

JP1: Test mode and programming jumper

SW4-DIP Switch: For Setting

***M1:** Validation card connector

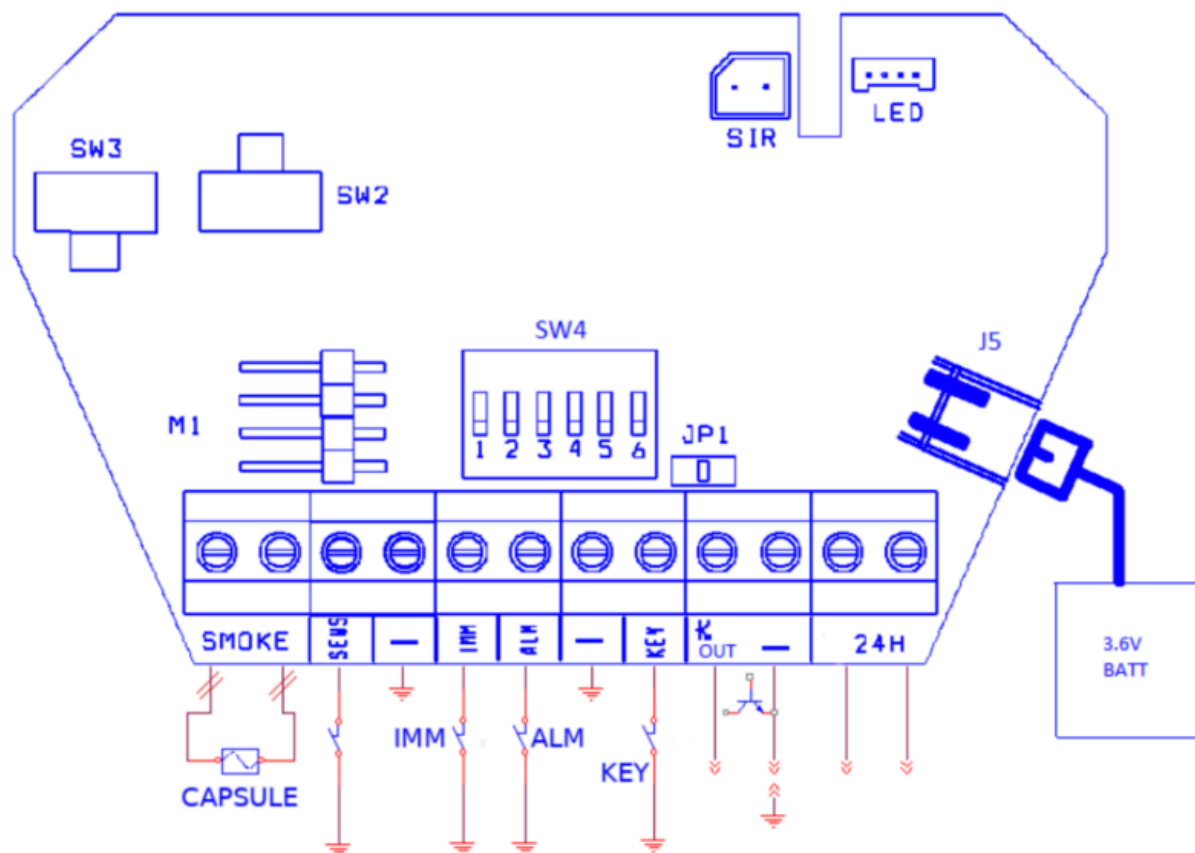
SW2: Tamper switches – Wall Sensor

SW3: Tamper switches – Cover Sensor

***M1:** Without validation card, or with invalid card, SENSORFOG behaves like a simple sound alarm control unit. The cartridge will not be activated



4. PCB OUTPUTS AND INPUTS



SMOKE: Capsule terminal: join same colors wires and connect to same terminal.

SENS: pulses count sensor input; set parameter with DIP-Switch 5 & 6

IMM: Immediate alarm input (negative to pull); **Priority over KEY settings**

ALM: Pre-Alarm Sensor input (negative to pull)

KEY: ALARM insertion input (negative to pull); allows to activate the alarm on ALL and SENS inputs

OUT: OC anomaly **output** (negative to push) activated on

- battery low or
 - invalid card or
 - missing cartridge used or deadline cartridge
- OUT will be "closed" only for 400ms (to save power)

24H: free contact tamper output (anti-sabotage) activated trough SW2 or SW3

5. DIP SWITCHES SETTINGS

With the DIP-Switches 1-6 it is possible to set the various options described in previous section.



IMPORTANT:

To start settings, PULL OUT Jumper Socket on JP1 (if insert).

Do required changes or settings.

To confirm and activate settings INSERT Jumper Socket on JP1.

Capsule Deadline programming

DIP 1	DIP 2	YEARS
OFF	OFF	1
OFF	ON	2
ON	OFF	3
ON	ON	4



Siren and wired input mode

DIP	ON	OFF
3	Siren On	Siren Off
4*	Enable wired input	Disable wired input

NOTES:

DIP 4 settings are valid for KEY, IMM, ALL, SENS

* in case of 'Enable wired input' input lines **KEY ALM SENS IMM** are **NEGATIVE TO PULL**

* in case of 'Disable wire input' **ONLY wireless** commands are available by remote control or TRx module

SENS Pulses count selector

DIP 5	DIP 6	PULSES
OFF	OFF	1
OFF	ON	2
ON	OFF	3
ON	ON	5



6. INSTALLATION PRCEEDURE

			
Unscrew fastening screw and remove the cover. Remove plastic sticker on the bottom of the cartridge	Pull out Jumper Socket on JP1. Set DIP Switches based on your needs, as described in section 5. Insert Jumper Socket on JP1 to confirm and activate settings	To do a “walk test” before activating the cartridge: Pull out Jumper Socket on JP1; Do “walk test”; then Insert Jumper Socket on JP1	Once Jumper Socket JP1 is insert, screw Cover back, within 4 minutes. During this 4 minutes red LED will flash. After 4 minutes the red LED will stop flashing and the system is enabled.

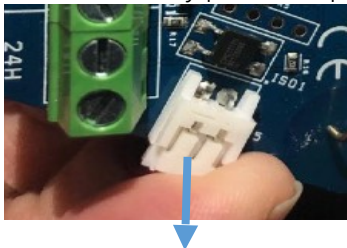
7. WIRELESS RESET

IMPORTANT:

All SensorFog wireless products purchased as “KIT”, are already paired with the remote control. NO FURTHER ACTION ARE REQUIRED.

RESET SENSORFOG-WIRELESS

- 1) Pull out battery pack and press both tampers 6-7 times to fully discharge cap



- 2) Insert battery pack, wait for the beep and then press 2 times both tampers. Red LED will flash 3 times. Reset has been successfully been completed.

8. ACTIVATE PAIRING MODE ON SFOG-R AND PAIRING WITH REMOTE CONTROL



IMPORTANT:

All SensorFog wireless products purchased as “KIT”, i.e. SFOG-R (KIT) or SFOG-R (DEMO), are already paired with the remote control. NO FURTHER ACTION ARE REQUIRED.

ACTIVATE PAIRING MODE ON SFOG-R

- 1) Pull out battery pack and press both tampers 6-7 times to fully discharge cap
- 2) Insert battery pack, wait for the beep and then press 4 times both tampers (4 times a beep will occur); total 5 beep
- 3) Red LED on SFOG-R will go on, pairing mode is activated.
- 4) Once all devices have been paired, press both tampers on SFOG-R 1 time. Red LED will turn off, pairing mode is deactivated.

PAIR REMOTE CONTROL WITH SFOG-R

- 1) Push button 2 on remote control, a beep will occur, LED will flash 1 time green. A short vibration on the remote control will confirm successfully pairing.



Picture 1

REMOTE CONTROL INSTRUCTION

- 1) **Activate SFOG-R:** Push button 1 for 1 second;
When LED flash's red once and 1 time a vibration occurs, then the alarm is insert
- 2) **Disable SFOG-R:** Push button 2 for 1 second;
When LED flash's 2 time green and 2 times a vibration occurs, then alarm is disabled
- 3) **Immediate alarm (Panic function):** Push button 1 for 5 seconds, 5 times vibration will occur;
Siren and Cartridge will be activated
After Sensorfog is activated, the led will flash 3 times yellow and 3 times vibration will occur

REMOTE CONTROL RESET

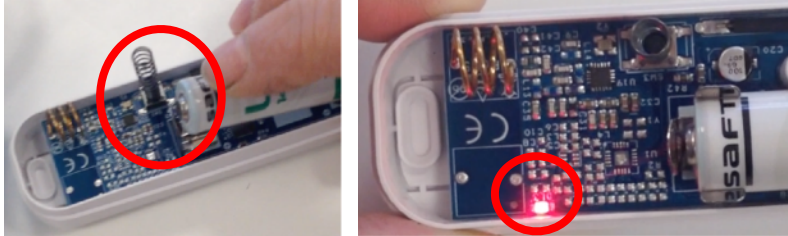
- 1) Push both buttons until led will flash green
- 2) Release button 1 only
- 3) Push button 1 two times and release button 2; The Led will flash 3 times green.
Remote control reset completed.



9. CONFIGURATION AND PARING WIRELESS DOOR/WINDOWS SENSOR WITH SFOG-R

RESET WIRELESS DOOR/WINDOWS SENSOR

- 1) Insert battery and push tamper 2 times.
- 2) On board LED will flash 3 times



This procedure is valid for any devices, i.e. motion detector. If the device has 2 tampers on board, both tampers need to be pushed.

PARING WIRELESS DOOR/WINDOWS SENSOR

- 1) Insert battery and push tamper 1 time. A beep will occur and LED will flash.

This procedure is valid for any devices, i.e. motion detector, add SensorFog (slave configuration). If the device has 2 tampers on board, both tampers need to be pushed

CONFIGURATION WIRELESS DOOR/WINDOWS SENSOR – IMPULSE SETTING FOR SHOCK DETECTOR

- 1) Take out battery and discharge capacitors by pushing several times on board tamper.
- 2) Insert battery and press 5 times tamper to get in setting mode, LED goes 1 time on



- 3) To set the sensibility of the shock detector press tamper:
 - 1 time → very sensitive
 - 1 + time → decreasing sensitive
 - Select desired sensibility
 - To safe selection, press tamper until LED will turn off



CONFIGURATION WIRELESS DOOR/WINDOWS SENSOR – IMPULSE SETTING FOR ROLLER SHUTTER (ROPE CONTACT)

- 1) Take out battery and discharge capacitors by pushing several times on board tamper.
- 2) Insert battery and press 4 times tamper to get in setting mode, LED goes 1 time on



- 3) To set the counter of the roller shutter press tamper:
 - 0 Tamperers → unit counter disabled
 - 1 time → activation with 1 click
 - 1 + time → activation with 1+ click(To check, take out the rope and LED will go on at the selected click)
 - To safe selection, press tamper until LED will turn off



RESET SHOCK DETECTOR

- 1) Take out battery and discharge capacitors by pushing several times on board tamper.
- 2) Insert battery and press 5 times tamper to get in setting mode, LED goes 1 time on
- 3) To reset shock detector, press tamper until LED turns off

RESET ROLLER SHUTTER

- 1) Take out battery and discharge capacitors by pushing several times on board tamper.
- 2) Insert battery and press 4 times tamper to get in setting mode, LED goes 1 time on
- 3) To reset shock detector, press tamper until LED turns off

10. PARING SFOG-R WITH SFOG-TRx

WARNING! Make sure that all SFOG-R (around the SFOG-TRx) are not enabled, to avoid unexpected activations.

1. Connect **SFOG-TRx** to power (+12 V from Security System)
2. Push programming button SW1 on SFOG-TRx for approx. 6 sec., until the LED of line 1 is on.



3. Press SW2 (Wall Sensor) and SW3 (Cover Sensor) on the SFOG-R device that you want to pair. Once SFOG-R and SFOG-TRx are paired, the LED starts to flash.



4. Push programming button SW1 on SFOG-TRx for approx. 1 sec again, to pair a new SFOG-R.
5. Repeat 2-4 until all SFOG-R are paired.
6. Push again SW1 until all 6 lines are scrolled to exit program mode.

Note: SFOG-TRx will turn on LED's on paired lines, when SFOG-TRx is activated by the KEY.

11. CONTENTS AND UNPACKING



Product comes with complete sensor and accessories (tamper springs are inserted). In the bag you'll find:

- ✓ Screw
- ✓ Validation card
- ✓ Jumper socket
- ✓ Tamper button



Tamper insertion



Card insertion (1)



Card insertion (2)

12. SPECIFICATIONS

TECHNICAL FEATURES

RF FREQUENCY	Band ISM 868 - 869,5 Mhz GFSK
Dimensions (L W H)	95 x 120 x 170 mm
Weight	1 Kg (including capsule)
Power Supply	not rechargeable battery pack
Consumption (standby)	85 – 220µa
Maximum consumption	200 ma
Instantaneous absorption	up to 200 mA (100 ms)
Filling capacity	150 - 250 m³
Smoke emission	Approx. 30 sec
Alarm state duration	2 min
Protection level	IP44



Temperature range	-20 °C to 80 °C
Capsule standby live time	3 years
Coating	ABS
Color	white



13. CERTIFICATIONS

Pyrotechnic articles: Category P1	Generic Type Smoke Generator: Subtype -Variants 3
Commercial Name: SFOG-SA	
SENSORFOG Compliance with R.E. is based on compliance with the following documents:	
EN 50130-4:2012, EN 55022:2009, EN 61000-4-2:2011, EN 61000-4-3: 2007, EN 61000-4-4: 2006+EC:2008 +A1:2010, EN 61000-4-5: 2007, EN 61000-4-6:2010, 61000-3-2:2007+A1/A2:2011.	
EN 301 489-3v1.4.1: 2002, EN 301 489-1v1.9.2: 2011, EN 300 220-1 V2.4.1:2012, EN 300 220-2 V2.4.1:2012, EN 300 330-1V 1.5.1:2006, EN 300 330-2 V 1.3.1:2006.	
EN 16263-1: 2015, EN 16263-2: 2015, EN 16263-3: 2015, EN 16263-4: 2015, EN 16263-5: 2015	
No-toxicity: D.Lgs. 81/2008 UNI EN 481: 1994, UNI EN 482: 1998, UNI EN 689: 1997, UNI EN 1076: 1999, UNI EN 1231: 1999 UNI EN 1232: 1999, UNI EN 1540: 2001	



WARNINGS FOR YOUR SAFETY



Please read the instructions for use and in particular observe the safety warnings. In the event that the safety warnings and the instructions for the intended use contained in these instructions for use are not observed, we assume no responsibility for any damage to property or persons. In addition, in these cases the guarantee lapses:

a) Generalities

- keep out the product from extreme temperatures, direct sunlight, strong vibrations, water, excessive moisture, flammable gases, vapors or solvents.

- Do not expose the product to mechanical stress.
- If it is no longer possible to use it in complete safety, disconnect it from the mains and prevent

it from being used improperly. The safety of use is no longer guaranteed, if the product:

- presents visible damage,
- it does not work properly anymore,
- has been stored for prolonged periods under unfavorable environmental conditions

- Do not store or store objects within 1 meter of the smoke outlet nozzle.

- The capsule and the metal container are very hot after each delivery. Be careful not to touch parts until they have cooled.

- ***Do not stand for too long in smoke-filled rooms.***

- ***Ventilate the rooms until the smoke disappears before staying there.***

- ***It is forbidden to smoke during the installation and handling of the product.***

- ***The use of the product is expressly forbidden to minors under 18 years.***

b) Electrical safety

- ***In order to ensure perfect system operation, we recommend using original batteries***

MAINTENANCE AND CLEANING

- Do not use strong detergent, alcohol and chemical solvent, to avoid surface damage device functionalities fault
- Use a dry rag for cleaning

DISPOSAL



Electronic devices are recyclable material, is forbidden to dispose them in domestic waste.

At the end of its life cycle, the product must be disposed in compliance with codes and laws in force.

This is the way to be compliant with law obligation, and to be eco-friendly.



**User and
installation
manual**

Ver.3.0-APR 2019

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