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URFOG FPU03ESM400A

URFOG FPU03ESM400A Fog Generator User Manual

Model: FPU03ESM400A | Brand: URFOG

1. PRODUCT OVERVIEW

The URFOG FPU03ESM400A is an advanced fog generator designed to enhance security systems by rapidly deploying a dense fog, significantly reducing visibility and disorienting intruders. This device is engineered for quick response and seamless integration, particularly with AJAX alarm systems, providing an effective deterrent and delaying theft or damage.



Figure 1: URFOG FPU03ESM400A Fog Generator. This image displays the compact, white unit with 'AJAX READY' and 'UR FOG' branding, indicating its design for integration into modern security setups.

2. KEY FEATURES

- **Rapid Fog Generation:** Produces 400 m³ of fog with zero visibility in approximately 60 seconds.
- **AJAX Integration:** Equipped with 2 integrated AJAX relays for seamless arming and execution control.
- **Visual and Audible Signaling:** Features an audible signal and LED visual indicators for operational status.
- **External Device Output:** Provides a 12VDC 300mA output for connecting peripheral devices.
- **Backup Battery Option:** Supports backup batteries (2x 12VDC 2.0Ah) for continued operation during power outages.
- **Adjustable Fog Shot Time:** Configurable fog distribution time up to 40 seconds.
- **Efficient Design:** Total launch time of 1.5 minutes with a total launch volume of 850 m³.

- **Green Power Technology:** Designed for low power consumption.
- **Easy Refill System:** Utilizes a 0.75 L single-use bag for convenient and clean fluid replacement.
- **Quick Reaction Time:** Responds within 200 ms.

3. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and safety of your URFOG fog generator. It is recommended that installation be performed by a qualified technician.

3.1 Unpacking and Inspection

1. Carefully remove the fog generator from its packaging.
2. Inspect the unit for any signs of damage during transit. Do not install if damaged.
3. Verify all components listed in the packing list are present.

3.2 Mounting

Mount the unit securely on a solid surface, such as a wall, at a height that allows for optimal fog dispersion and prevents tampering. Ensure adequate clearance around the unit for ventilation and maintenance access.

3.3 Power Connection

Connect the unit to a stable power source as per local electrical codes. The unit requires a warm-up period (less than 60 minutes) upon initial power-up to reach operational temperature.

3.4 Fog Fluid Bag Installation

1. Open the designated compartment for the fog fluid bag.
2. Insert a new 0.75 L single-use fog fluid bag, ensuring it is correctly seated and connected to the internal pump mechanism.
3. Close the compartment securely.

3.5 Integration with Alarm System (AJAX)

Utilize the two integrated AJAX relays to connect the fog generator to your AJAX alarm system. One relay is typically used for arming/disarming the fog generator, and the other for triggering fog deployment upon alarm activation. Refer to your AJAX system's manual for specific wiring and configuration details.

4. OPERATING INSTRUCTIONS

Once installed and configured, the URFOG FPU03ESM400A operates primarily in conjunction with your alarm system.

4.1 Initial Power-Up and Warm-Up

Upon first power-up or after a prolonged power disconnection, the unit will enter a warm-up phase. The LED indicator will show its status (e.g., blinking) until it reaches operational temperature, typically within 60 minutes. Once ready, the LED will indicate a stable 'armed' or 'ready' state.

4.2 Arming and Disarming

The fog generator's arming status is typically linked to your AJAX alarm system's arming status via the integrated relays. When the alarm system is armed, the fog generator becomes active and ready to deploy fog. Disarming the alarm system will disarm the fog generator.

4.3 Fog Deployment

Fog deployment is automatically triggered by the alarm system when an intrusion is detected and the system is armed. The unit will rapidly release fog for the configured duration (up to 40 seconds) to fill the protected area, creating zero visibility conditions.

4.4 Status Indicators

Observe the LED indicators and listen for audible signals to understand the unit's current status (e.g., warming up, ready, armed, low fluid, error).

5. MAINTENANCE

Regular maintenance ensures the reliability and longevity of your URFOG fog generator.

5.1 Replacing Fog Fluid Bag

When the unit indicates a low fluid level (via LED or alarm system notification), replace the single-use fog fluid bag as described in Section 3.4. Always use genuine URFOG fluid bags for optimal performance and to prevent damage.

5.2 Backup Battery Check (Optional)

If backup batteries are installed, periodically check their charge status and replace them as recommended by the manufacturer (typically every 3-5 years) to ensure continuous operation during power outages.

5.3 Cleaning

Wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or allow liquids to enter the unit.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your URFOG fog generator.

6.1 No Fog Output

- **Check Power:** Ensure the unit is properly connected to a power source and receiving power.
- **Warm-Up Period:** Verify the unit has completed its warm-up cycle.
- **Fluid Level:** Check if the fog fluid bag is empty or incorrectly installed. Replace if necessary.
- **Alarm System Connection:** Confirm the AJAX relays are correctly wired and configured to trigger fog deployment.
- **Error Indicators:** Check for any error LEDs or audible signals that might indicate a fault.

6.2 Unit Not Responding

- **Power Supply:** Ensure stable power supply. If using backup batteries, check their condition.
- **Alarm System Link:** Verify communication between the fog generator and the AJAX alarm system.

If issues persist after following these steps, contact qualified technical support.

7. SPECIFICATIONS

Feature	Specification
Model Name	FPU03ESM400A

Fog Coverage (Zero Visibility)	400 m ³
Fog Coverage (1m Visibility)	1200 m ³
Fog Generation Time (400m ³)	60 seconds
Adjustable Shot Time	Up to 40 seconds
Total Launch Time	1.5 minutes
Total Distributed Volume (Zero Visibility)	1275 m ³
Total Distributed Volume (1m Visibility)	3825 m ³
Tank Capacity	0.75 L (single-use bag)
Heating Time (100%)	< 60 minutes
Reaction Time	200 ms
Dimensions (H x L x P)	390 x 300 x 130 mm (15.35 x 11.81 x 5.12 inches)
Power Supply	12 Volts (DC)
External Output	12VDC 300mA
Backup Battery Support	2x 12VDC 2.0Ah (not included)
Color	White

8. WARRANTY AND SUPPORT

Information regarding specific warranty terms and conditions for the URFOG FPU03ESM400A fog generator was not available in the provided product data. Please refer to the official URFOG website or contact your authorized dealer for detailed warranty information and technical support.

For technical assistance, troubleshooting beyond this manual, or spare parts inquiries, please contact the manufacturer or your product supplier.