HKC

UR FOG READY

Density® READY



RF-FOG

Wireless Fog Machine Interface

Installation Manual (UK version)

The smart choice for the professional installer

1. Overview

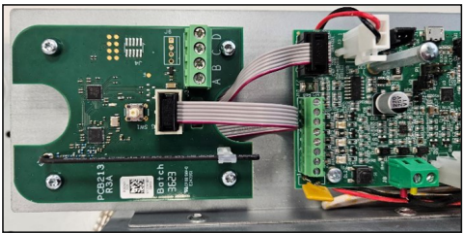
The **RF-Fog** unit is designed to integrate with the **UR FOG** & **Density Global** range of fog machines and provides a wireless connection to the **SW-10270** panel to trigger these Fog units in the event of an intruder or panic activation. These Fog machines when triggered, produce dense fog in which within 10 seconds you can no longer see hands or feet. These units are designed to be installed in a range of commercial environments such as newsagents, pharmacies, jewellers & warehouses etc. and can be programmed to trigger when a Confirmed Alarm or Panic activation occurs on a connected Intruder Alarm system.

The unit can be removed from its housing and installed inside the fog machine or can be fitted outside the fog unit if required by using the supplied comms card and standard alarm cable (Up to 1m away).

2. Installation

The **RF-Fog** unit is designed to be installed in 2 ways. It can be mounted inside or outside the main Fog unit.

Installing RF-Fog inside the Fog unit
For Fog units that have a plastic lid (e.g., **UR FOG**), we recommend mounting the **RF-Fog** circuit assembly inside the unit. Remove the main pcb from its housing and screw it into place on the pillars provided inside the Fog unit. Use the supplied ribbon cable to connect from the **RF-Fog** unit to the Serial Port on the Fog unit:



2. Installation - contd.

Installing RF-Fog outside the Fog unit

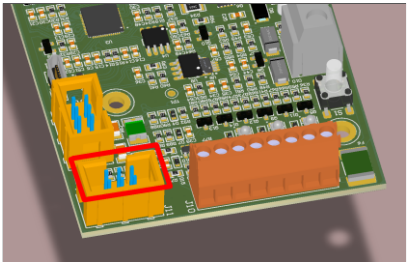
With fog units that have a metal lid (e.g., Density), we recommend mounting the RF-Fog unit outside the main Fog Unit housing and use alarm cable to wire from the ABCD terminals to the ABCD terminals of the supplied Comms Card, then using the ribbon cable to connect to the fog unit.



⚠ Note: The alarm cable distance from the comms card to the RF-Fog unit should not exceed 1 metre.

Connecting to "Compact" units

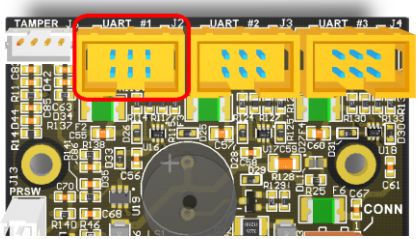
To connect to **UR FOG Modular 200/300/400/500/800, Compact 390, Density Basic, Density 600/900/1500/2400 Lite units,** the serial cable should be connected to J11 connector as shown:



2. Installation - contd.

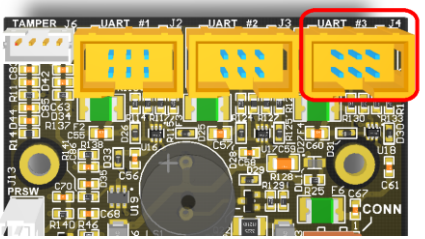
Connecting to UR FOG "Modular Plus" units

To connect to **UR FOG Modular 2/3/4/5/8 Plus units,** the serial cable should be connected to J2 as shown:



Connecting to "Density Professional" units

To connect to **Density 390/900/1500/2400 units,** the serial cable should be connected to J4 as shown:



3. Menu Map - Add & ID

To add an **RF-Fog** unit on to a **SecureWave** system go into engineer mode. Select the **Devices Menu**, then **RF Devs Menu**. Next select the **Add & Id RF Devs** option.



Scroll down to Add&Id: RF FOG and select YES.

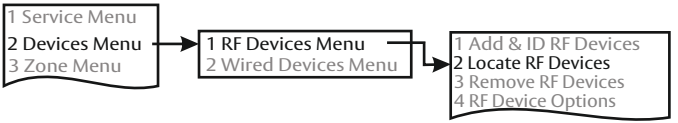


The system displays **Devs Found - 000** when it starts scanning and as it finds its first device the display will change to **Devs Found - 001**. When the system has found all its **RF-Fog** units (max.5) press QUIT to stop scanning. You will then be prompted to close their tamper switches.

Close the tamper switches (SW1) in sequence. You will hear a 2 second audible indication as each **RF-Fog** unit is identified into the system.

4. Menu Map - Locate/Remove Device

To locate an **RF-Fog** unit, go into engineer mode. Select the **Devices Menu**, then **RF Devs Menu**. Next select the **Locate RF Devs** option.



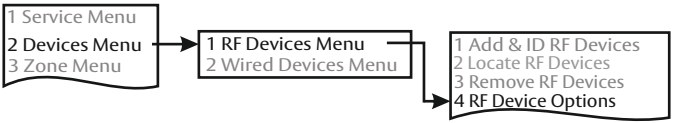
If you have more than 1 **RF-Fog** unit and you want to locate one, then go to **Locate: RF FOG** and select. Scroll to the **RF-Fog** unit you are looking for. The **RF-Fog** unit you have chosen will have its LED flashing on and off. Alternatively, SW1 on any **RF-Fog** unit while in this menu will identify this device at the keypad and sound the internal siren for 2 seconds.

4. Menu Map - Locate/Remove Device cont.

If you want to remove an **RF-Fog** unit from the system, go to **Remove:RF FOG** and select. Then scroll to the **RF-Fog** unit you want to remove or press SW1 on the unit to be removed and press YES to remove.

5. Menu Map - RF-Fog Device Options

To get to the RF-Fog options menu; select the Devices Menu, then RF Devices Menu. Next select RF Device Opts menu.



From there go to the **RF FOG Opts** menu and select, then scroll to the **RF-Fog** unit of choice.

- **F1 Unit Tamper** when set to NO deactivates the Main FOG Unit tamper switch.
- **F1 RF Tamper** when set to NO deactivates the RF-FOG Unit tamper switch.
- **F1 Mon Sup** (Monitored Supervisory signal) is defaulted to YES. When the device is "lost" for >120 minutes a supervisory alarm is flagged by the panel. This can be turned off by selecting NO. However, we recommend that this feature is left as YES.

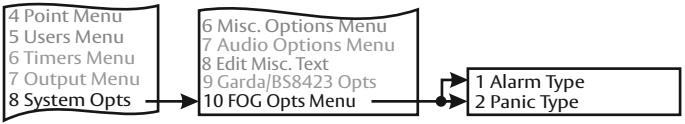
⚠ Note: In RF System Options you can globally adjust the supervisory time by going to the Sup. Time (supervisory Time) menu.

- **F1 Block** - This option is used to associate a specific RF-Fog unit with a block of zones on the system. If set to B0 All Blocks, a relevant Alarm or Panic activation in the Common area or any other Block on the system will trigger the Fog unit. If set to any other Block, only relevant Alarm or Panic options from that Block will trigger the Fog unit.

⚠ Note: A "block" is a semi-autonomous section within the overall system and is made up of zones/points, users, keypads and outputs.

6. Menu Map - Global Fog Options

To get to the global **Fog Opts Menu**; select the **System Opts Menu**, then **FOG Opts Menu** and press YES.

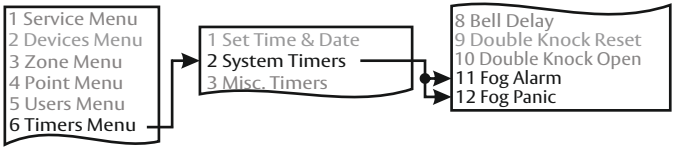


• **Alarm Type:** Choose the type of Alarm activation to trigger the Fog unit e.g. **Intruder** or **Confirm**. The default setting is **Confirm** meaning that more than one zone needs to activate and generate a "BA Confirm" (Burglary Alarm Confirm) log event to trigger the Fog unit. Choosing **Intruder** will cause the Fog unit to trigger on a single zone Alarm activation.

• **Panic Type:** Choose the type of Panic activation to trigger the Fog unit e.g. **Panic** or **Confirm**. The default setting is **Confirm** meaning that more than one Panic zone needs to activate and generate a **Confirmed Panic** log event thus triggering the Fog unit. Choosing **Panic** will cause the Fog unit to trigger on a single zone Panic activation.

7. Menu Map - Global Fog Timers

To program **Global Fog Timers**; select **Timers Menu**, then **System Timers**



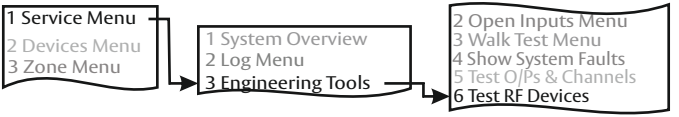
• **Fog Alarm timer:** Sets the amount of time the Fog unit will activate for in an Intruder or Confirm activation. (Default: **25** seconds)

• **Fog Panic timer:** Sets the amount of time the Fog unit will activate for in a Panic or Panic Confirm activation. (Default: **0** seconds)

⚠ **Note:** Setting any of these timers to **0** will disable Fog activation for those events. So, by default, a Panic event will **not** trigger the fog unit.

⚠ **Note:** Unsetting the alarm system before the Fog timer expires will stop the fog unit from shooting.

8. Replace Fluid & Shoot Testing Fog unit



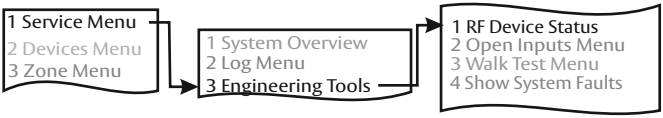
Go to **Test RF Devices** (see menu map above) and select **Test RF FOG ?** Then choose the unit to test. There are 4 options in this menu:

- **Reset Fluid:** Choose this option when replacing the Fog unit's cartridge*.
- **4 Seconds Shoot Test:** Triggers the fog unit for 4 seconds.
- **10 Seconds Shoot Test:** Triggers the fog unit for 10 seconds.
- **20 Seconds Shoot Test:** Triggers the fog unit for 20 seconds.

***Replacing Fluid and Resetting Fog Level**
Once the Fog cartridge has been replaced in the machine, the fluid level **must be reset manually.** This is done by selecting the "Reset Fluid" option in the above menu. The fluid level will be reset to 100% and the system fault will be cleared. The Fog fluid level can be found in the **RF Device Status** menu

9. RF-Fog Status

To check status information of the RF-FOG units, Go into **RF Device Status - RF FOG Status**



Check Fog Fluid level
The current Fog Machine fluid level can be located in this menu.

This fluid level is read directly from the machine, with a range of 0 to 100%. For example, when the Fog fluid is full the status will be: "F1 Fluid: 100%".

In the event that the Fog machine is empty then the RF Fog Status will be: "F1 Empty". Additionally a "Fog 1 Empty" system fault and panel log event will be generated.

Other status information from the RF Device Status Menu is shown below:

F1 FOG 1:	Device number (1-5)
F1 RF FOG:	Device Type
F1 Ver 4.3.0:	RF-FOG firmware version
F1 -44 / 100%:	RF Signal & Quality levels
F1 M=C I=O:	Machine Tamper (M) and RF-FOG Tamper(I) - Open or closed
F1 Ready:	Machine Ready/Not Ready state
F1 Protocol:	Serial Comms Protocol
F1 Fluid:	0 -100% fluid level
F1 Type:	Machine Type (See page 10 for further information)
F1 Max Shoot:	Machine maximum possible shoot time
F1 Batt OK:	Machine Battery Status
F1 Mains OK:	Machine Mains Status

⚠ **Note:** While viewing status information, press the NO key to pause and view live status information Press NO again to continue through the menu..

10. UR FOG Models Supported

Series	Fog Machine	Machine Type
Modular	Modular 200	31
Modular	Modular 300	32
Modular	Modular 400	33
Modular	Modular 500	34
Modular	Modular 800	35
Modular Plus	Modular 2 Plus	36
Modular Plus	Modular 3 Plus	37
Modular Plus	Modular 4 Plus	38
Modular Plus	Modular 5 Plus	39
Modular Plus	Modular 8 Plus	3A
Compact	Compact 390	44

11. Density Models Supported

Series	Fog Machine	Machine Type
Density	Density 390	0A
Density	Density 900	0C
Density	Density 1500	0E
Density	Density 2400	0F
Density	Density Basic	45
Density	Density AIR	46
Density	Density 600 Lite	47
Density	Density 900 Lite	41
Density	Density 1500 Lite	48
Density	Density 2400 Lite	49

12. Technical Specifications

Voltage	3.3Vdc (supplied by Fog unit)
Current Consumption	Quiescent (not active): 7mA Transmit: 33mA
Radio Range	*Line-of-sight > 400m
Environmental	-25°C to +60°C
Main PCB Dimensions	89mm x 65mm
Small PCB Dimensions	32mm x 21mm
Main PCB Weight	27g
Small PCB Weight	9g

Note: Mounting the **RF-Fog** PCB assembly inside the Fog unit will affect the RF Signal range if the Fog unit has a metal lid. Check for suitable signal level. You may have to mount the unit outside the Fog unit enclosure or use an **RF-Expander** (V1.3.5+) or **RF-SmartPSU** (V1.3.0+) if the RF signal level is below -85dBm. When mounting the unit outside the Fog unit enclosure, please use the comms card supplied and keep the cable distance to 1 metre or less.

Note: Minimum firmware versions required for full support of all RF-FOG features:
SW-10270: V4.4.2 or greater
RF-Expander: V1.3.5 or greater
RF-SmartPSU: V1.3.0 or greater

WARNING
While this system has been designed to the highest standards it does not offer guaranteed protection against burglary or fire. Any alarm system is subject to compromise or failure to activate for a variety of reasons.

Therefore good installation practices and regular maintenance are essential to ensure continuous satisfactory operation of the system.

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