TRX EXTERNAL SIREN

Operational Features of the External Wireless Siren

The External wireless siren comes with a 4 way DIP Switch that allows you to select which output, or outputs, the siren will follow.
The 4 way DIP switch on the external wireless siren allows output selection as follows;

DIP SWITCH NUMBER				FUNCTION SELECTED
1	2	3	4	
OFF	OFF	OFF	OFF	Siren & Strobe Follow Output # 1
ON	OFF	OFF	OFF	Siren & Strobe Follow Output # 2
OFF	ON	OFF	OFF	Siren & Strobe Follow Output # 3
ON	ON	OFF	OFF	Siren & Strobe Follow Output # 4
OFF	OFF	ON	OFF	Siren & Strobe Follow Output # 5
ON	OFF	ON	OFF	Siren & Strobe Follow Output # 6
OFF	ON	ON	OFF	Siren & Strobe Follow Output # 7
ON	ON	ON	OFF	Siren & Strobe Follow Output # 8
OFF	OFF	OFF	ON	Follow Output's # 1 & 2 , 1 = Siren, 2 = Strobe
ON	OFF	OFF	ON	Follow Output's # 3 & 4 , 3 = Siren, 4 = Strobe
OFF	ON	OFF	ON	Follow Output's # 5 & 6 , 5 = Siren, 6 = Strobe
ON	ON	OFF	ON	Follow Output's # 7 & 8 , 7 = Siren, 8 = Strobe

The DIP switches are only checked at power-up so if the settings need to be changed the unit must be powered down and then at power-up the new DIP switch settings will start working.
At power-up the unit puts a dynamic load on the battery for 5 seconds and then checks the battery voltage. If after 5 seconds the battery voltage is still below the upper threshold the load will continue for another 5 seconds. If after 15 seconds the battery voltage is still below the upper threshold the unit will start working and send a battery low to the panel (if it had been previously loaded as a radio zone). While the battery test is happening the unit will not respond to the main transceiver so there may be a maximum of 15 seconds after power-up before the unit will respond to outputs.
When DIP switch 4 is off the external siren will follow single outputs. In this mode both the siren and strobe will follow the same output (eg both will turn on together if the output is triggered).
When DIP switch 4 is on the external siren will follow an output pair, eg 1&2, 3&4, 5&6 or 7&8.
The first or lowest output selected in the paired combination will operate the Siren, eg a single tone for approximately 200ms for radio chirps followed by the full siren tone. The second and highest output number of each pair (eg if 1&2 are selected it would be 2) will operate the Strobe so that the siren and strobe can be operated separately.
The External wireless siren has a built-in 10 minute maximum siren time to ensure the siren will never run longer than 10 minutes. Once this timer has expired the panel needs to turn the output off before the siren will trigger again.

This device can be run from an external 6V power supply with the battery now serving as a standby back-up battery as opposed to a primary battery. If a battery is fitted with an external power supply the battery is still checked every 10 minutes and the unit can report a battery low when the voltage drops below a preset threshold. If no battery is fitted the unit will not send a battery low, ie it requires a battery to be fitted before it can send a battery low. The correct procedure for replacing a battery on a unit that is powered by an external 6V supply is to remove both the battery and external supply, fit the new battery then after about 15 seconds reconnect the external power again.

Installing the External Wireless Siren

1) Fit the 3.6V C cell battery to the TRX EXTERNAL.
2) Place the panel TRX connected to the ELITE S into learn mode (press and hold the learn button for 2 seconds until the LED begins to flash).
3) Place the TRX EXTERNAL into learn mode by holding the learn button down for 2 seconds until the LED begins to flash (the learn button is the red pushbutton on the PCB).
4) This process will learn the TRX EXTERNAL to the panel TRX. Once the TRX EXTERNAL has been learnt to the panel TRX the TRX EXTERNAL LED will stop flashing.
5) The TRX EXTERNAL will now respond to the programmed outputs as set by the 4 way DIP switch but if the TRX EXTERNAL “tamper switch” and “battery low” signals should be indicated back at the panel the unit will need to be learnt as a zone into the panel. Select a spare zone on the panel and ensure the zone is set to a wireless input (eg P122E#E, where # equals the selected zone number, then ensure options 1 & 5 are on. Option 1 enables the zone and option 5 sets it as a wireless zone). Also the zone wireless type at P127E should be set to a 3 or 4. If set to 3 the protocol is Freewave with the supervise signal being active. If set to 4 it is also Freewave protocol but the supervise signal is ignored.
6) When the zone has been enabled and set as a wireless zone now set the panel into learn mode by entering P164E#E (where # equals the selected zone number). The LED farthest away from the DIP switch on the panel TRX will begin flashing when the zone learn mode has started.
7) Now operate the tamper switch on the TRX EXTERNAL to learn it into the panel. When a valid signal has been received by the panel the zone learn mode will automatically stop.
8) The TRX EXTERNAL is now locked to the panel TRX and is learnt as a wireless zone at the panel.
9) Test the connection between the TRX EXTERNAL and the panel by triggering the tamper switch. The panel must be out of program mode for the tamper alarm to occur.