Transceiver (TRX) Set-up instructions

The 8 way DIP switch will allow one of 8 RF channels (Frequencies) to be selected plus one of 32 site code addresses as per the charts below;

RF Channel selection;

RF CHANNEL (Frequency)	DIP SWITCH NUMBER							
	1	2	3	4	5	6	7	8
917.1Mhz	OFF	OFF	OFF	-	-	-	-	-
917.7Mhz	ON	OFF	OFF	-	-	-	-	-
918.3Mhz	OFF	ON	OFF	-	-	-	-	-
918.9Mhz	ON	ON	OFF					
919.5Mhz	OFF	OFF	ON					
920.1Mhz	ON	OFF	ON					
920.7Mhz	OFF	ON	ON					
921.3Mhz	ON	ON	ON					

SITE CODE SELECTION	DIP SWITCH NUMBER							
	1	2	3	4	5	6	7	8
Site Code # 1	-	-	-	OFF	OFF	OFF	OFF	OFF
Site Code # 2	-	-	-	ON	OFF	OFF	OFF	OFF
Site Code # 3	-	-	-	OFF	ON	OFF	OFF	OFF
Site Code # 4	-	-	-	ON	ON	OFF	OFF	OFF
Site Code # 5	-	-	-	OFF	OFF	ON	OFF	OFF
Site Code # 6	-	-	-	ON	OFF	ON	OFF	OFF
Site Code # 7	-	-	-	OFF	ON	ON	OFF	OFF
Site Code # 8	-	-	-	ON	ON	ON	OFF	OFF
Site Code # 9	-	-	-	OFF	OFF	OFF	ON	OFF
Site Code # 10	-	-	-	ON	OFF	OFF	ON	OFF
Site Code # 11	-	-	-	OFF	ON	OFF	ON	OFF
Site Code # 12	-	-	-	ON	ON	OFF	ON	OFF
Site Code # 13	-	-	-	OFF	OFF	ON	ON	OFF
Site Code # 14	-	-	-	ON	OFF	ON	ON	OFF
Site Code # 15	-	-	-	OFF	ON	ON	ON	OFF
Site Code # 16	-	-	-	ON	ON	ON	ON	OFF
Site Code # 17	-	-	-	OFF	OFF	OFF	OFF	ON
Site Code # 18	-	-	-	ON	OFF	OFF	OFF	ON
Site Code # 19	-	-	-	OFF	ON	OFF	OFF	ON
Site Code # 20	-	-	-	ON	ON	OFF	OFF	ON
Site Code # 21	-	-	-	OFF	OFF	ON	OFF	ON
Site Code # 22	-	-	-	ON	OFF	ON	OFF	ON
Site Code # 23	-	-	-	OFF	ON	ON	OFF	ON
Site Code # 24	-	-	-	ON	ON	ON	OFF	ON
Site Code # 25	-	-	-	OFF	OFF	OFF	ON	ON
Site Code # 26	-	-	-	ON	OFF	OFF	ON	ON
Site Code # 27	-	-	-	OFF	ON	OFF	ON	ON
Site Code # 28	-	-	-	ON	ON	OFF	ON	ON
Site Code # 29	-	-	-	OFF	OFF	ON	ON	ON
Site Code # 30	-	-	-	ON	OFF	ON	ON	ON
Site Code # 31	-	-	-	OFF	ON	ON	ON	ON
Site Code # 32	-	-	-	ON	ON	ON	ON	ON

Installing the TRX

First set the RF channel and site code switches as per the two charts on page 1. If the site has more than one TRX and you have pendants that need to be used from any point on the site all TRX's must have the same DIP switch settings.
Connect the TRX board to the ELITE S keypad bus using the POS, NEG, CLK & DAT pins. There is also a short antenna supplied with the PCB. Screw the antenna wire in to the terminal labeled "ANT" ensuring the wire is perpendicular to the board.

Learning Devices to a TRX

Every device (Keypad, Internal and External Siren, Output, PIR, Smoke, Reed Switch and Pendant) must be "Learnt" to the TRX before they can be used. During the "Learn" process every device learns the unique serial number of the TRX so that they can be locked to the system. The exception to this are the pendants which only learn the frequency and site code number.
When learning a device to a TRX you must first press the "LEARN" button on the TRX for about 2 seconds. The LED farthest away from the DIP switch will start to flash indicating the learn process has started. The TRX learn mode will continue for 60 seconds or until the learn button is pressed again which will stop the learn process.
While the TRX is in "Learn" mode press the "LEARN" button on the individual devices (the LED on each device will start to flash showing learn mode is active). As soon as a device receives the "Learn" signal from the TRX the LED on that device will stop flashing. Repeat this process until all devices have been learnt to the TRX. Each device has a dedicated learn button and LED with the exception of the pendants. To put a pendant into learn mode you must press and hold any button for longer than 5 seconds. After 5 seconds the pendant LED will begin to flash showing learn mode has been started.
When learning any device or pendant to the TRX the TRX must be in learn mode. If the TRX has timed out of learn mode you must press the learn button for 2 seconds again to ensure the TRX is in learn mode.

Auto-Clone Process

During the Learn process the TRX creates a database of all the devices connected to it and saves that database in it's internal memory. In the unlikely event of a TRX failure there is a "Clone" mode that allows that database to be recreated.

Provided all devices have lost communication with the TRX for longer than 2 minutes they will wake up every 100 seconds looking for the original TRX signal again or a "Clone" message. To successfully "Clone" a replacement TRX to an existing site you must first set the DIP switches on the new TRX to be the same as the original unit (this has to be done before powering up the TRX).
Once that is done, power up the replacement TRX and hold down the learn button for 5 seconds. At that point the two LEDS farthest away from the DIP switch will flash together indicating that the clone process has started.
The clone process takes 4 minutes. After 4 minutes the TRX will automatically exit clone mode and return to the normal operating mode at which time all existing devices will begin operating again. At all times during the clone process the existing devices must remain powered and operating normally. As pendants only use the frequency and site code information they will not need to be cloned to the new TRX provided the switches are set to the same settings as the original TRX.