Working with Protocols and Battery

PROTOCOLS:

There are many ways to build a 'Protocol' or 'Set of Frequencies' for use with the Telligent – Intelligent Plasma Ball. Probably the easiest is to overstore an existing 'Protocol' already stored in the Telligent's memory. The unit comes with a PDF page showing what is in the existing 50 memory groups as it comes from Aurorasky. PDF title is 'Telligent Memory Groups and Protocols'. Consider printing out a hard copy for mark up.

Walk through example:

Step 1:

Using the above referenced PDF, dial in memory group 33. Alternatively stated dial in 'Freq Rds=' to read 'Freq Rds=33'. This is done by going to the 'Setup=0' screen, pressing the RED button to move the cursor to the 'Freq Rds' position and then rotating the dial until 33 is displayed.

Step 2:

Press the RED button to move the cursor under the 'Setup=0' again. Dial in 'Setup=1'. Step the cursor to the '3' in 'F1=34922'. Rotate the dial to change the '3' to the number '2'. Next step the cursor to the '4' and dial to the number to '8'. Following the above steps change the remaining numbers to read '000'. 'F1=' should read 'F1=28000'. Leaving all the rest of the values alone in this memory group press the Rotary Dial in once, and then press the Rotary Dial in again. You have just locked the Frequency 28000 hertz into memory group 33 as Frequency 1, (F1).

Step 3:

Dial 'Setup=1' back to 'Setup=0'. Move the cursor by pressing the RED button back to 'Freq Rds=33'. Dial in the number '34'.   Repeat what you did for memory group '33' and make the frequency 'F1' so it equals 'F1=28000' for memory group 34.

Step 4:

The above just changed a frequency in memory 33 and 34. It only takes a minimum of two frequency groups, alias memory groups, to make up a small Protocol.   Next move the cursor to the 'Setup=' part of the display and dial in a '2' so it now reads 'Setup=2'. While in the 'Setup=2' screen step the cursor over to 'Modes' and dial in '2'. This will change to the 'PROTOCOL' mode of operation. Press the Rotary Dial in once, and then press the Rotary Dial in again. You have just locked the Telligent into PROTOCOL mode.

Step 5:

Move the cursor back to the 'Setup=2' and dial to 'Setup=3'. Step the cursor through the Screen and dial in 33 for 'Range Starting' and 34 for 'Range Stopping'. Press the Rotary Dial in once, and then press the Rotary Dial in again. You have just locked the Telligent into a protocol that will run two consecutive memory groups also known as 'frequency groups'.

Step 6:

At this point you might want to check your timers to see if they are set to your satisfaction. To do this dial to the 'Setup=5' screen. Remember from previous presentations that 'Freq Time = nnnn' is always in seconds and 'Progm Time = nnnn' is always in minutes. Dial in the times to your satisfaction.   Press the Rotary Dial in once, and then press the Rotary Dial in again should you have made changes.

Step 7:

Should you want to run this protocol dial back to the 'Setup=0' screen and press the Rotary Dial in once. This will run consecutively the two Frequency Groups for the duration the timers are set to in the 'Setup=5' screen.

Although this was only a two Frequency Group protocol, a single protocol can be as large as 50 Frequency Groups. If you are computer Savvy and have loaded the Arduino IDE on to your computer, you can use the 'Intelligent_EEProm_Update_V2' program to reload the Arduino memory with preset memory group blocks. This of course would mean you would have to learn some Arduino IDE basics. This is very doable but does require some learning time for most. Do not try to learning the Arduino with the Telligent. Buy yourself a $20 starters kit to experiment and learn with. The latest source code for both the Telligent and EEProm updates can be found on the Aurorasky website.

NOTE: For those that don't listen or totally mess up the Arduino program. Learning how to run the Arduino IDE can be far less expensive than mailing the Telligent back for reprogramming. However Aurorasky will reprogram your Telligent at no charge for 6 months from the shipping date. Shipping will be your only expense per the 'Order Agreement' found as a link on the 'Order Information' website page.

BATTERY INFORMATION:

Running the Telligent from a lithium ion battery couldn't be easier. Instead of plugging in a wall power module to provide 12 volts for the Telligent, just plug in a 12 volt lithium battery. Search "lithium battery 12 volt" on EBay, Amazon or the supplier of your choice for something that will work. Do not purchase anything smaller than 6 amps 6000 milliamps. Demo was done with a 12 amp unit and ran for 3 hours before dropping out. Lithium batteries are great for portable operation or **power outages**.