

4 Channel Generator Wi-Fi Operation

The present Generator's Wi-Fi capability is very basic and intended to be a convenient ON/OFF remote switch for the Generator as well as a proof of concept on where this can be taken. Writing code for a sophisticated wireless app can be expanded to the limits of the authors imagination. The Generator source code is open source with the basic wireless software already written. If you can write code in 'C', the Arduino IDE is the perfect place to start expanding the Wi-Fi capabilities of this Generator.

There is a file name "wifidataX.txt" on the micro SD card. It contains two words on two lines. One word for each line. The 1st line is the SSID name of your wireless connection. The 2nd line is the password of the wireless connection. Using a standard text editor on your favorite computer change the "YourSSID" and "YourPassWord" to the appropriate text for your wireless system. Save the new file with the name "wifidata.txt". In other words save the file with the "X" removed from the name. If this is done correctly your Generator will start up with wireless connectivity capability.

The software is smart enough to know that if there is no file by the name of "wifidata.txt" found on the micro SD card, then it will run the Generator with the wireless capability turned off. If it see that the file is present and has been set up with a valid SSID and PASSWORD, it will turn on the wireless capability upon startup or every time the reset button is pressed. If there is an error with the SSID or PASSWORD, or your local wireless connectivity is turned off, the generator will display an error message. It will display this error message for 10 seconds and then start the generator in normal mode.

If the generator can see a local wireless connection and everything is in good order, the generator will display an IP address for 10 seconds and then complete the startup process. This IP address can be used by your smart phone or computer when in BROWSER MODE to bring up a basic ON/OFF web page for the Generator. Just point and click to turn the Generator ON or OFF. If you didn't catch the IP address during the 10 second display window time, just press the reset button and watch the generators screen. The reset button is the rotary knob which acts as a reset button when pressed.

There will eventually be a Video made showing this wireless capability. If you are not familiar with these technical aspects of working with a wireless applications, it is suggest you seek some local help from a person with the appropriate knowledge background.

Be well and respectfully,

Steve