



SP8100 Switch Panel Power System, Rev. 2 Added Features

1. Voltage readout in the App

The App will display the battery voltage. The reading can also be calibrated in the “Calibrate” tab in the App settings menu.

2. App radio name

The name of the Bluetooth radio can be changed, limited to 8 characters. This is the device name of the SP8100 switch panel that will appear after pressing “scan for devices”. It can be changed in the App settings menu under “Radio Name”. The default name is “SWCHPRO”

3. Switch output dimming function

All switch outputs are dimmable. The dimming function for each switch must be enabled in the App menu under settings/output dimming. When the dimming function is enabled, the switch will still function normal if pressed on/off. The dimming is actuated when pressing and holding the switch on for 1.5 seconds. The switch led indicator will start to flash fast for 1 second, indicating a 70% output. Then in 1 second increments the dimming will decrease to 50%, 30% and 10%. The switch led indicator flash rate will also decrease, indicating the level of dimming. When the desired dimming level is achieved, releasing the switch will lock in the dimming level. The level is not stored, so the next time the switch is turned on and dimmed, the level will start at 70% again.

4. External Trigger Input

This function uses the Yellow light input wire for the trigger input to turn on up to 2 outputs.

The function must be enabled in the App. When disabled, the yellow light input wire is still used to turn on the switch panel backlighting.

Switch panel backlighting dimming that was previously using the yellow wire is now activated with the blue ignition wire signal, (only if the function is enabled in the App). The blue ignition wire is still connected to an ignition source for the ignition input, but will also turn on the backlighting to the user adjustable level.

The yellow wire is connected to the external trigger. It can be a high beam signal, reverse light signal, or a dome light signal, to give a few examples. For example, if connected to the high beam signal, when turning on the high beams on the vehicle, up to two outputs of the switch panel will also turn on.

The function is enabled in the App, but must also be turned on through the switch panel. The function can be turned on and off through the switch panel to switch between off-road and street driving.

To use this function:

- The Yellow wire must be connected to a trigger source, 12V = On.
- Enable the function in the App under settings/external trigger setup.
- Select up to two outputs to turn on.
- On the switch panel, hold the programming button and press switch 8. The programming led will flash 3 times, indicating the function is on. To turn the function off, press and hold the programming switch and press switch 8. The programming led will flash once, indicating the function has been turned off.



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5. Sleep mode

The switch panel system will enter sleep mode after the pre-set time, drawing a minimal amount of current (<4mA). Bluetooth and switch control is disabled. Default setting is “enabled” after 8 hours of inactivity. The system will “wake up” with an input to the ignition or light input after 1-3 seconds. Control and time (adjustable 0 to 65500 minutes) for the automatic sleep mode can be found the App under settings/sleep mode.

The system can also be put into sleep mode instantly (no delay) through the switch panel by pressing and holding the programming switch and pressing switch 7. The programming led will flash 3 times for indication.

For the system to enter sleep mode, Ignition and light inputs must be off, all outputs must be off, and no Bluetooth connection can be present.

The automatic sleep mode function with the programmed delay can also be turned on through the switch panel by pressing and holding the programming switch and pressing switch 4. The programming led will flash 3 times for indication.

The automatic sleep mode function can also be disabled by pressing and holding the programming switch and pressing switch 3. The programming led will flash 3 times for indication.

6. Bluetooth Control Disable

Bluetooth control can be disabled by pressing and holding the programming switch and pressing Switch 1. The programming led will flash 3 times for indication. Bluetooth connection must be off when disabling Bluetooth.

Bluetooth control can be enabled by pressing and holding the programming switch and pressing Switch 2. The programming led will flash 3 times for indication.

Special switch functions summary, in conjunction with pressing and holding the programming switch:

Switch 1
*Bluetooth
Disable*

Switch 3
*Sleep Mode
Disable*

Switch 5

Switch 7
*Instant
Sleep Mode*

Switch 2
*Bluetooth
Enable*

Switch 4
*Sleep Mode
Enable*

Switch 6

Switch 8
*Ext. Trigger
On/Off*