

SOFTWARE SETTINGS MANUALS

SPL GUARD ARIZONA



 SPL GUARD

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1. Instructions to change the offset temperature on the SPL Guard Arizona

1.1 Open hterm

Download link for hterm: <https://hterm-beta-100.software.informer.com/download/>.
Another serial communication utility can also be used.

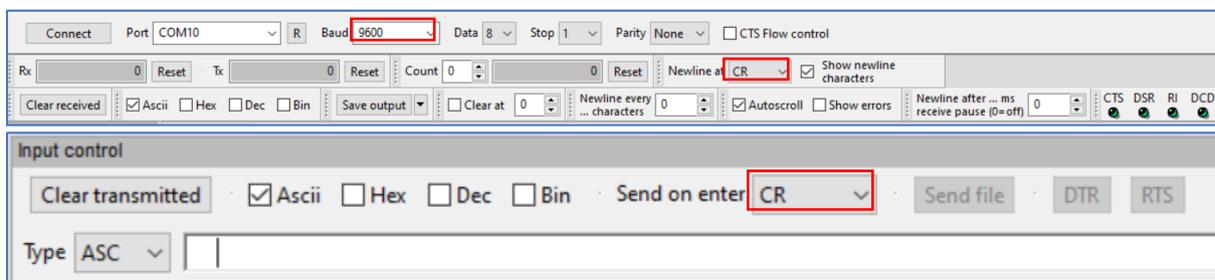
1.2 Plug in the double USB cable

Plug one in your PC and one in the USB plug on the back of the machine (see image on the right).

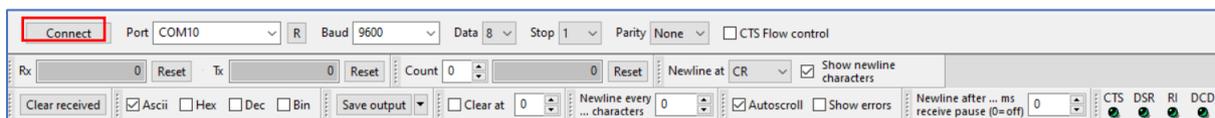


1.3 Insert the following settings

- COM Port: look in “Device Manager” to find out to which COM-port the USB is connected;
- Baudrate = 9600;
- Newline at = CR;
- Send on enter = CR.



1.4 Press connect



1.5 Settings and temperature

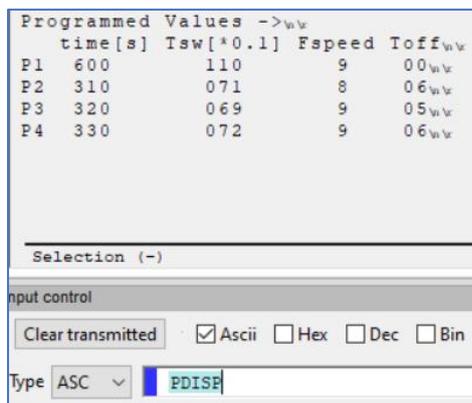
The temperature at which the machine will shutoff is determined by the calibrated value T_{sw} and the calibrated offset temperature T_{off} . This value is compared to the measured sensor temperature T_{sensor} .

$$T_{sensor} = (T_{sw} * 0,1) - T_{off}$$

When the sensor value (T_{sensor}) is the same as the sum of the calibrated values ($(T_{sw} * 0,1) - T_{off}$); the machine will shut off.

Settings:

1. Program: there are 4 programs (P1...4) that can be calibrated and selected from.
2. Maximum time (s): maximum time that the machine takes before shutting off.
3. Calibration temperature ($T_{sw} * 0.1^{\circ}C$): value will be used in combination with temperature offset (T_{off}).
4. Fspeed(pwm): speed of the fan.
5. Temperature offset ($^{\circ}C$): offset which is used in calculation with the calibrated temperature (T_{sw}).



	time[s]	Tsw[*0.1]	Fspeed	Toff
P1	600	110	9	00
P2	310	071	8	06
P3	320	069	9	05
P4	330	072	9	06

Selection (-)

Input control

Clear transmitted Ascii Hex Dec Bin

Type ASC

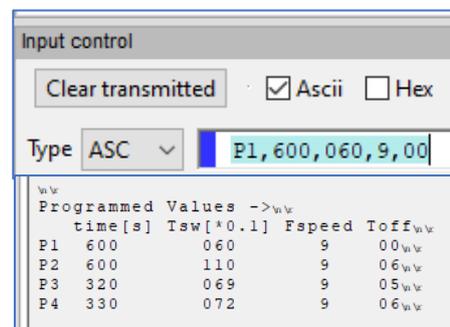
1.6 Changing program values

To change the values in one of the programs, a command in the hterm command-line can be send. Each command needs to meet the following structure: Px,ttt,TTT,F,oo

1. Program number between P1-P4;
2. ttt: insert time in seconds (max. 999 sec);
3. TTT: shutoff temperature ($*0.1^{\circ}C$);
4. F: fan speed between 1 and 9;
5. oo: offset temperature (max. 99).

Example: "P1,600,060,9,00". Press <Enter> to send.

When these settings are sent, the values should be shown on the terminal.



Input control

Clear transmitted Ascii Hex

Type ASC

	time[s]	Tsw[*0.1]	Fspeed	Toff
P1	600	060	9	00
P2	600	110	9	06
P3	320	069	9	05
P4	330	072	9	06

1.7 Other commands

There are a few other commands that are helpful:

1. "PDISP": this will show the value of each program.
2. "?": this will show the display help screen.
3. "S": this will show the serial number of the machine.
4. "Snnnnn": this will set the serial number of the machine (example: "S00012").
5. "DEFAULTS": this will set the program values to factory settings.
6. "TDISPx": will set the temperature to Celsius or Fahrenheit (example: "TDISPC" or "TDISPF").

When commands are not recognized, the terminal will show "Wrong Input".

2. Customer Service



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