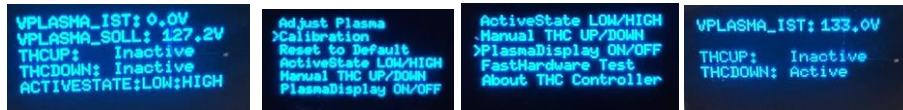# Menu THC Controller 1.01 (20241023)
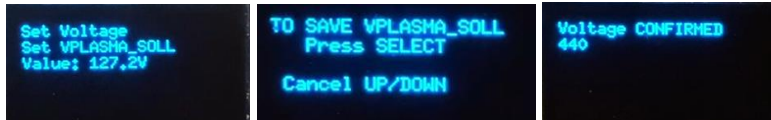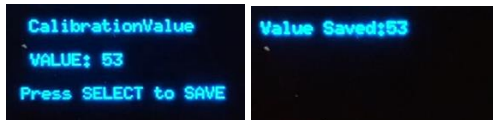
-Start Screen

Status Screen :

ACTIVESTATE : LOW (THC ACTIVE State) : HIGH (PlasmaDisplay ON (HIGH)/OFF (LOW))
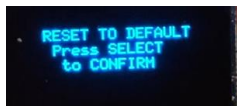
-Adjust Plasma

UP/DOWN-Button → +/- Plasma Voltage

-Calibration

Default value 53 → Option to select 50, 53, 100, 200, 25

-Reset to Default

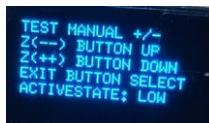Do Reset to Default when you will start again. !!!

-THC Active State

You can change THCUP/DOWN to Active HIGH or Active LOW

That means if HIGH THCUP/DOWN will have 5V, if LOW THCUP/DOWN will have GND when Active

-Manual THC UP/DOWN

To Test your CNCPlasma without PlasmaBurner

Each Push UP/DOWN-Button (100ms) impulse

If you push more than 500ms it loops 100ms(ON),100(ms(OFF) till release

-PlasmaDisplay ON/OFF

You can Switch OFF LCD Display Update when PlasmaCutter active.

This make sense when you have fast movment speed.

Because LCD Update takes around 200ms

- About RHC Controller
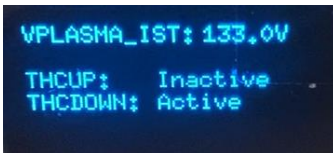

FW Version / FW Date / PCB Serialnumber /

During PlasmaCut this are the possible LCD Screens

  If PlasmaDisplay **OFF**

  If PlasmaDisplay **ON**

  PilotArc Detection only active when Internal VoltageDivider is used **1:53**

Prevent this state because high power ower resistors. > 50 W. This Screen apears with Voltage over 240V !! A few ms may be ok. PilotArc can have 5000V-10000V. Find a connection point for PlasmaCutter without PilotArc Voltage. If you are not electrician ask for assistance voltage >50V is dangerous

LED States only on during PlasmaCut

LED1 → Shows Status THC/LCDUpdate →

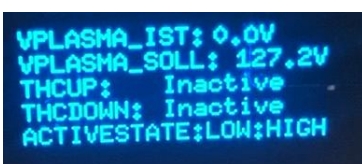> **ON=THCUP/DOWN Active, OFF= LCDUpdate Active**

LED2 → ShowS THCUP Status → **ON = ACTIVE, OFF = INACTIVE**

LED3 → Shows THCDOWN Status → **ON = ACTIVE, OFF = INACTIVE**

Buttons → SELECT, UP, DOWN

Are only useable when no PlasmaArc is detected !!!
With this Screen on LCD or second Indicator all LED OFF