Pyr0-Piezo Z-Probe rev.1.x.x Marlin Config

Most mechanical endstops use "active low" logic, which requires Marlin to be configured for endstop pins to be pulled up, and the default logic to be inverted.

This methodology has been adopted as of Rev.1.0.2. All pyr0-piezo sensors will use active-low logic:

Step1 - Endstop Settings:

Comment #define ENDSTOPPULLUP_ZMIN (or other pin if using a different connection) Set Z MIN ENDSTOP INVERTING to "true"

```
//----
//----- Endstop Settings -----
// @section homing
// Specify here all the endstop connectors that are connected to any endstop or probe.
// Almost all printers will be using one per axis. Probes will use one or more of the
// extra connectors. Leave undefined any used for non-endstop and non-probe purposes.
#define USE XMIN PLUG
#define USE YMIN PLUG
#define USE ZMIN PLUG
//#define USE XMAX PLUG
//#define USE YMAX PLUG
//#define USE ZMAX PLUG
// Enable pullup for all endstops to prevent a floating state
#define ENDSTOPPULLUPS
#if DISABLED (ENDSTOPPULLUPS)
  // Disable ENDSTOPPULLUPS to set pullups individually
  //#define ENDSTOPPULLUP XMAX
  //#define ENDSTOPPULLUP YMAX
  //#define ENDSTOPPULLUP ZMAX
  #define ENDSTOPPULLUP XMIN
  #define ENDSTOPPULLUP YMIN
  //#define ENDSTOPPULLUP ZMIN
  //#define ENDSTOPPULLUP_ZMIN_PROBE
#endif
// Mechanical endstop with COM to ground and NC to Signal uses "false" here (most common setup).
#define X MIN ENDSTOP INVERTING true // set to true to invert the logic of the endstop.
#define Y MIN ENDSTOP INVERTING true // set to true to invert the logic of the endstop.
#define Z MIN ENDSTOP INVERTING false // set to true to invert the logic of the endstop.
#define X MAX ENDSTOP INVERTING false // set to true to invert the logic of the endstop.
#define Y MAX ENDSTOP INVERTING false // set to true to invert the logic of the endstop.
#define Z MAX ENDSTOP INVERTING false // set to true to invert the logic of the endstop.
#define Z_MIN_PROBE_ENDSTOP_INVERTING false // set to true to invert the logic of the probe.
```

Step 2 - Enable Interrupts*:

*This only applies if you are running Marlin v1.1.9 or later

Uncomment this line for best possible accuracy

```
// Enable this feature if all enabled endstop pins are interrupt-capable.
// This will remove the need to poll the interrupt pins, saving many CPU cycles.
#define ENDSTOP_INTERRUPTS_FEATURE
```

Step 3 – Configure Z Probe Options:

- If using the Z_Min input, uncomment #define Z_MIN_PROBE_USES_Z_MIN_ENDSTOP_PIN
- Uncomment #define FIX MOUNTED PROBE
- Uncomment #define PROBING FANS OFF
- Uncomment #define DELAY BEFORE PROBING 250
- Set all probe offsets to 0
- Change Z PROBE SPEED SLOW to match FAST
 - #define Z PROBE SPEED SLOW (Z PROBE SPEED FAST)
- *Optional: Uncomment #define MULTIPLE PROBING 2
- Uncomment #define Z_MIN_PROBE_REPEATABILITY_TEST

Step 4 – Configure Bed Levelling:

- Choose your flavor of bed leveling and uncomment the line for it. Theoretically Unified Bed Levelling is the best choice for this kind of probe
- *Optional: Uncomment #define RESTORE_LEVELING_AFTER_G28 if you don't plan on doing a full G29 after each G28
- Uncomment and set #define MANUAL Z HOME POS -0.15
- Uncomment #define Z SAFE HOMING
 - Default for this setting puts the nozzle in the center of the bed for G28Z, but you can define a corner offset if you wish. This will be performed before any bed levelling procedure