Eurotherm 3504 Controller Setup with Events – Type R

Enter the controller configuration level:

Press and hold ☐ until `ACCS` appears in the upper display `Goto Level 1` appears in the lower display
Press ▲ ▼ until `Config` appears in the lower display `Pass Code` appears in the lower display
Press ▲ ▼ until `4` appears in the lower display `Pass` appears in the lower display
The controller is now in configuration mode

Set controller configuration parameters:

- Use the ▲ ▼ keys to adjust parameter values
- Press the ↻ key to enter the value and cycle to next parameter
- Press ☐ to return to the top of a configuration menu
- At the top of a menu Press ☐ to cycle to next menu
- Please note that the only parameters listed are the parameters required for furnace operation.

Inst - Opt

Set `Units` to `C`

PV Input

Set `IOtype` to `Thermocpl`
Set `LIN Type` to `R`
Set `Res'n` to `XXXXX`
Set `CJC Type` to `internal`
Set `SBrk` to `Low`

Mod – 1A

Set `Ident` to `DC Output`
Set `IO Type` to `mA`
Set `Res'n` to `XXXXX`
Set `Range Hi` to `20`
Set `Range Lo` to `4`

Mod – 2A

Set `ident` to `Relay`
Set `IO Type` to `OnOff`

Mod – 2C

Set `ident` to `Relay`
Set `IO Type` to `OnOff`

LP1 – Setup

Set `ch1 control` to `PID`
Set `Control act` to `Rev`
Set `Deriv Type` to `Error`

LP1 - PID Configuration

Set `sched type` to `PV`
Set `num sets` to `3`
Set `Boundary 1-2` to `500`
Set `Boundary 2-3` to `1000`
Set `OPhi/2/3` to `100`
Set `OPlo/2/3` to `0`

LP1 – SP Configuration

Set `Range Hi` to `1595`
Set `Range Lo` to `0`
Set `SP High Lim` to `1595`
Set `SP Low Lim` to `0`

LP1 – OP Configuration

Set `Output Hi` to `100`
Set `Output Lo` to `0`

Program Setup

Set `Power Fail` to `Ramp`
Set `Max Events` to `2`
Set `PVEvent` to `No`
Set `Time Event` to `No`

To Exit Configuration:

Press ☐ until `ACCS` appears in the upper display `Goto Conf` appears in the lower display
Press ▲ ▼ until `the desired level is shown.`
Press ↻