

Thermal Tech & Temp

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2-Way Twin Heat Module

Standard Features Are:

Stainless Steel Case with Handle
2 Channel Contactorized Switching
Neon Indicators for both Channels
Neon Indicator Power-On
EHS Custom Temperature
Controllers Dual Thermocouple Jacks
Size: 10" high x 20" deep x 9" wide

Twin Heat Module Parts

(2) EHS 3216 Temperature Controllers	Part # 21427
(3) 110 Volt Neon Lights	Part # 21332
(2) Fuse Holders (5-Amp Fuses)	Part # 21333
(2) 300Amp Female Panel Mounts	Part # 24502
(2) 300Amp Male Panel Mounts	Part # 24501
(2) Dual Female Type "K" T/C Jacks	Part # 25249
(2) SW200 Albright Contactors	Part # 21250
(1) Replacement Stainless Steel Frame	Part # 21311
(1) Replacement Stainless Steel Lid	Part # 21312

Parts List Above for 2006-2019 Units

Read Carefully before operating

- 1) Upon receipt of your new Twin Heat Module visually inspect it for any damage that might have occurred during shipment. If there are any signs of damage please call EHS Immediately so a damage claim can be processed.
- 2) The Twin Heat Module Weighs less than 30 Pounds.
- 3) Never operate the Twin Heat Module with the top removed. Serious electrical shock can occur if care is not taken.
- 4) Always use a Stable 120 volt source. The Twin Heat Module uses less than 5 amps. The Twin Heat module as a three prong plug and must be grounded at all times during use.
- 5) Make sure the Primary Input & Output Tapings have been placed on the correct locations, make sure you have a tight connection. The contactors are rated for 250 Amps maximum we suggest you stay around 200 amps maximum.
- 6) If you should have any questions please call us 24 hours a day 7 days a week at our office # (609) 588-0900

Getting Started set up Procedure

- 1) Make sure that all primary power connections are properly and tightly connected. Make sure that the unit is grounded and that the supply power is connected to the correct input tapings.
- 2) Connect the Cable Sets to the Input Twistlocks (Male) and the output Twistlocks, (female) and see that the corresponding thermal-couples are plugged into the proper T.C. jacks.

NOTE!! When attaching the thermal-couples to the workpiece or reattaching a broken thermal-couple, it is very important to temporarily disconnect the T.C. from the Jack on the Console and the Jack on the Recorder. The electrical spark of the TAU may travel through the T.C. wire and cause damage to the recorder or the controller.

OPERATING INSTRUCTIONS for the EUROTHERM 3216 RAMP to SET-POINT CONTROLLER

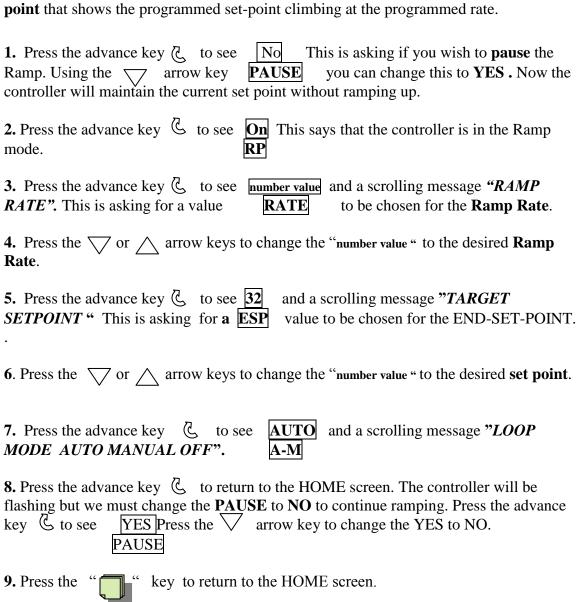
There are four keys on the face of the 3216 Controller.

The "key returns the operator to the **HOME** display.

The " & " key is used to select new parameters.
The \triangle key and the \bigvee key increase or decrease a value.
There are three modes of operation that can be used with the 3216 controller.
1. Ramp to Set-Point: The controller ramps to a set-point at a set rate. The controller is set to Auto, with the Ramp "ON".
2. Straight to Set-Point: The controller goes straight to the set point as quickly as possible when set to Auto , with the Ramp "OFF".
3. Percentage Timer : The controller turns on and off according to a set percentage when set to Manual , with the Ramp " OFF ".
The " $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
<i>Scrolling messages</i> appear on the bottom of the controller to give various status, set-up, or alarm information. For example; INPUT SENSOR BROKEN says that the Thermo-Couple is either broken or not plugged in.

Ramp to Set-Point Mode

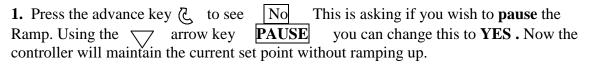
When the 3216 Ramp controller powers on in the **Ramp** mode the top of the display will be **flashing** between **rP** and the **input value**. The lower display value is the **ramping set-point** that shows the programmed set-point climbing at the programmed rate.



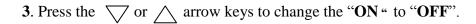
The controller will now start ramping from the input temperature to the target set-point (**ESP**), at the chosen Ramp **Rate**. The upper section of the display will begin **flashing** between the input value and "**Rp**". The lower section of the display will show the ramping set-point. **If the controller is not flashing, then it is not Ramping**!!!

Values for the Set point or the ramp rate may be changed any time throughout the heating process. The Ramp may also be put into "pause" (similar to hold in the Remote Mode) by pressing the advance key to see NO and a scrolling message "Ramp Pause". Use the key to change the PAUSE NO to YES.

Straight to Set-Point Mode



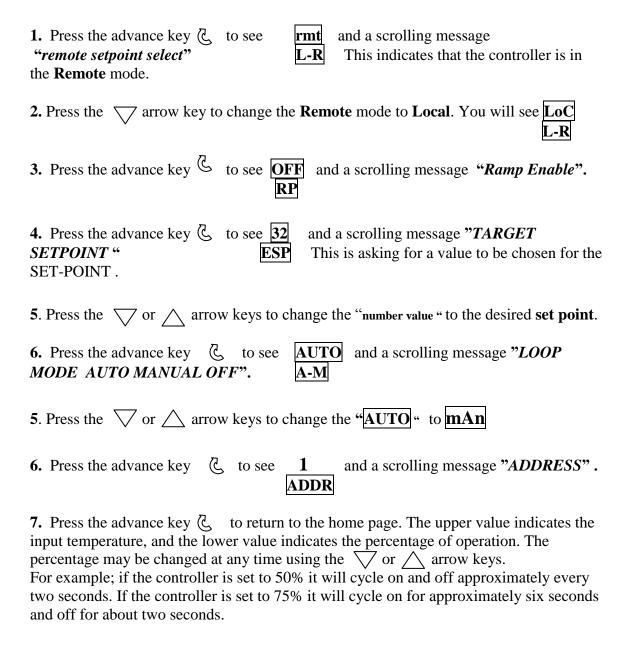




- 4. Press the advance key (2) to see [32] and a scrolling message "TARGET SETPOINT" ESP This is asking for a value to be chosen for the SET-POINT.
- **5**. Press the \bigvee or \bigwedge arrow keys to change the "number value" to the desired **set point**.
- **6.** Press the advance key to see AUTO and a scrolling message "LOOP MODE AUTO MANUAL OFF".
- **8.** Press the advance key to return to the home page. The upper value indicates the input temperature, and the lower value indicates the set-point .

The Op 2 light will show on the controller indicating that the controller is calling for heat, and will stay ON continuously until the input temperature reaches the set-point temperature. In this mode there is no ramping control and care must be taken to avoid over-shooting of the set-point.

Percentage Timer Mode



TWIN HEAT MODULE CONNECTION

