

Thermal Tech & Temp

8281 WRIGHT STREET, MERRILLVILLE, IN 46410

info@thermaltechtemp.com sales@thermaltechtemp.com

www.thermaltechtemp.com
Main Office: 1.219.213.2093

1.800.674.9284

6-Way Lowboy Console

Standard Features Are:

73FC Transformer
125 Amp 3 Phase Circuit Breaker
Primary 3-Phase Input Tapping options of 480/575v, 3ph, 60hz.
Secondary Output Voltage 80 Volt
6 Channel Contactor Switching
Individual Neon Indicators per Channel
Eurotherm Ramp Temperature
Controllers Size: 36" high x 34" deep x 24" wide
6" Heavy Duty Casters
4 Eye Hooks



Read Carefully before operating

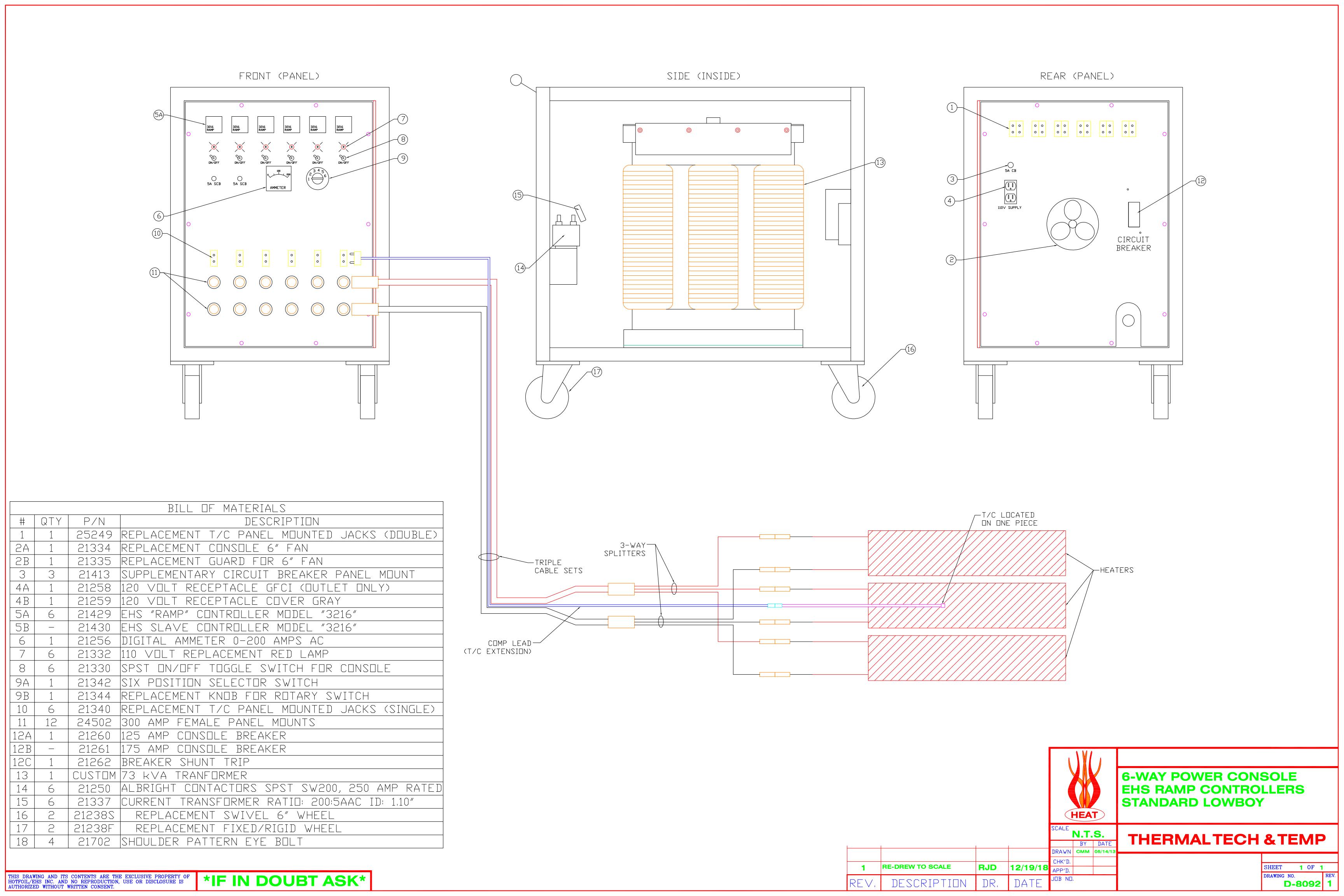
- 1) Upon receipt of your new power console visually inspect it for any damage that might have occurred during shipment. If there are any signs of damage, please call EHS immediately so a damage claim can be processed.
- 2) The power console weighs approximately 960 pounds. Be very careful when loading and unloading using a fork-lift.
- 3) Never operate the power console with the sides or the top removed. Serious electrical shock can occur if care is not taken.
- 4) Always use a primary cable of #4 AWG minimum. We recommend using #2 AWG minimum for runs over 25 ft. Do not use anything smaller in size. The cable must be 4-Wire and the power console must be grounded at all times during use.
- 5) Make sure the primary input taps have been connected in the correct orientation for the voltage you will be using i.e. 440/480/575 Volts.
- 6) Make sure the secondary taps have been connected in the correct orientation for the heaters you will using i.e. 80 Volts.
- 7) If you should have any questions please call us 24 hours a day, 7 days a week, at our office # (609) 588-0900.

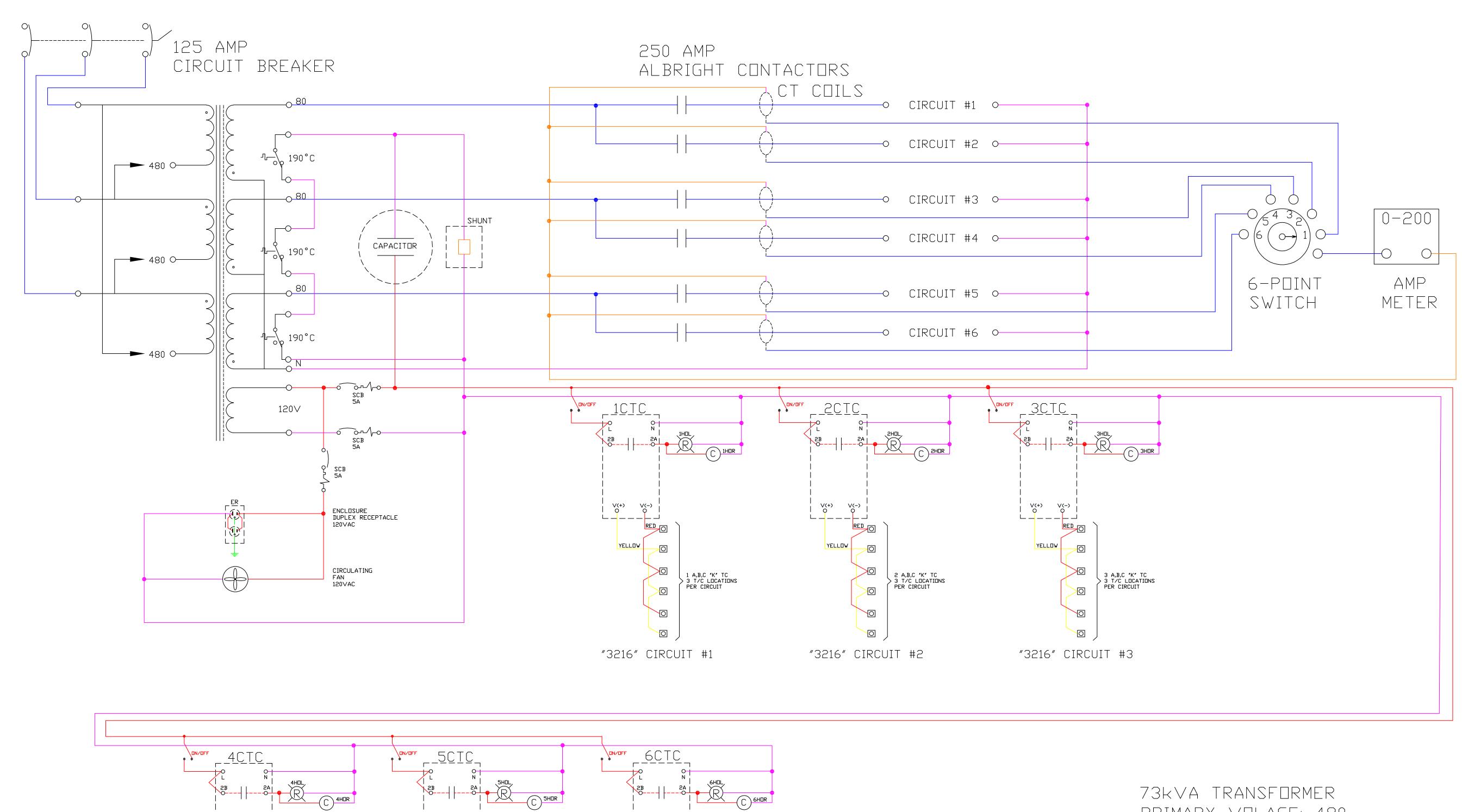
Getting Started set up Procedure

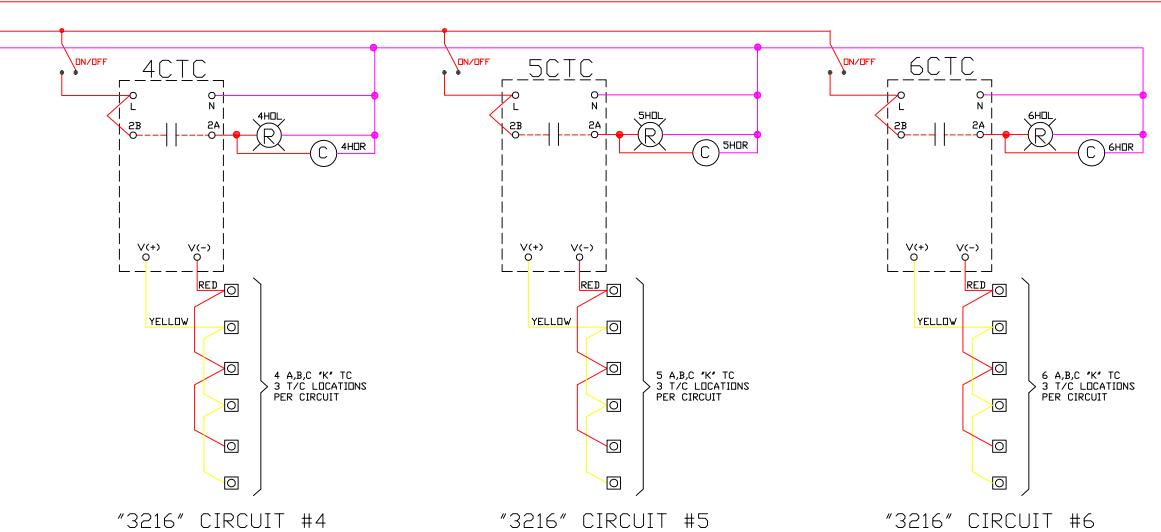
- 1) Make sure that all primary power connections are tightened and properly connected. Make sure that the unit is grounded and that the supply power is connected to the correct input taps.
- 2) Connect the triple cable sets to the output camlocks, and see that the corresponding thermocouples (T/C) are plugged into the proper T/C jacks.

NOTE!! When attaching the thermocouples to the work-piece or reattaching a broken thermocouple, 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 and/or the controller.

3) Turn power on to the console.







PRIMARY VOLAGE: 480 SECONDARY VOLTAGE: 80

DESCRIPTION



JOB NO. -- **TYP**. --

DATE

6-WAY LOWBOY **POWER CONSOLE**

3216 RAMP CONTROLLERS

N.T.S. DRAWN RJD 03

THERMALTECH & TEMP

SHEET 1 OF 1 **6LOW-RAMP SCHEMATIC** ING NO. REV. **D-8094 O**

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

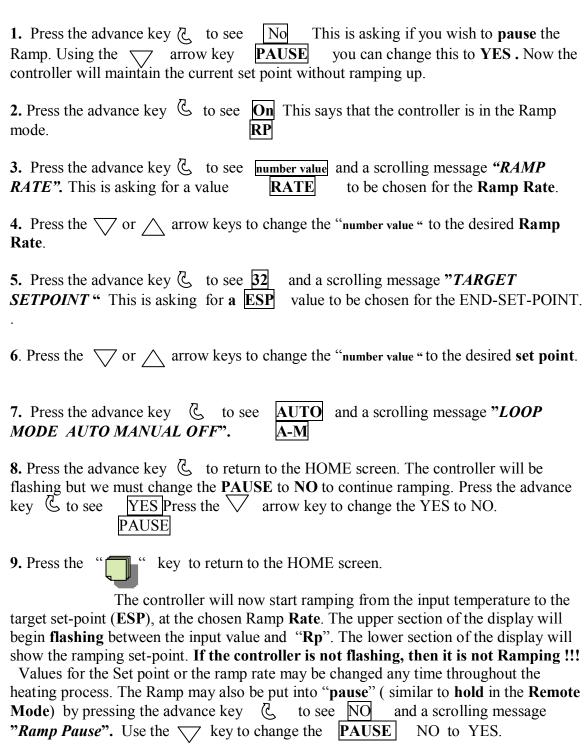
There are four keys on the face of the 3216 Controller.

The " $\begin{picture}(100,0) \put(0,0){\line(0,0){100}} \put(0,0){\line(0$

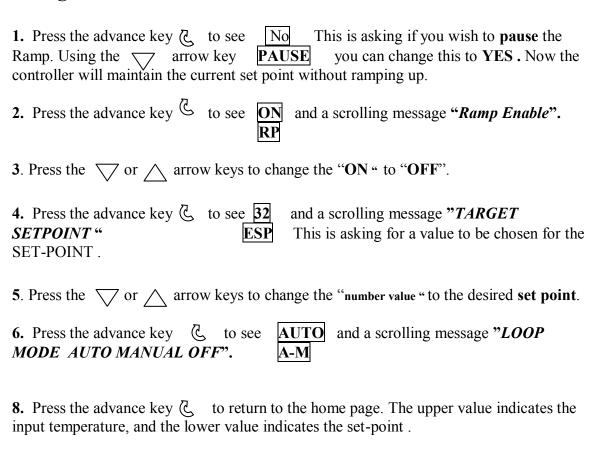
The " & "key is used to select new parameters.
The \triangle key and the ∇ key increase or decrease a value.
There are three modes of operation that can be used with the 3216 controller.
1. Ramp to Set-Point: The controller ramps to a set-point at a set rate. The controller is set to Auto, with the Ramp "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 " & " key moves from one option to another and the \(\simetizer \) and keys are used to insert numbers for set point, ramp rate, or percentage values.
Scrolling messages 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.

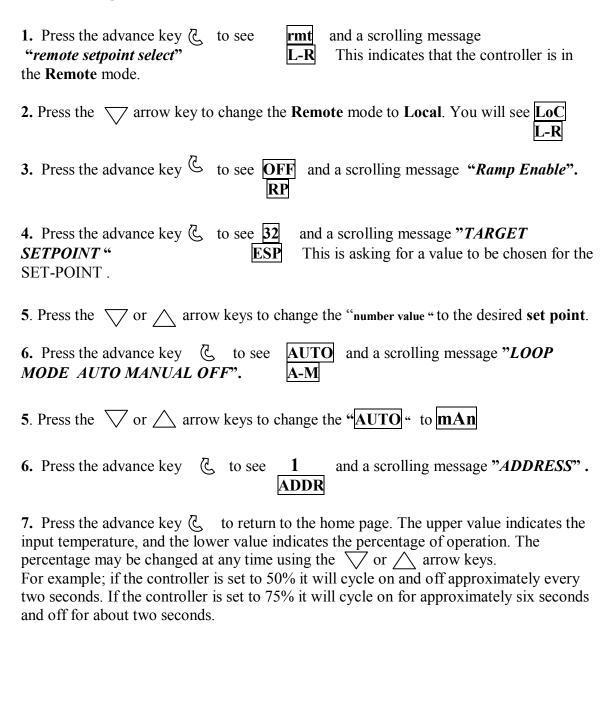


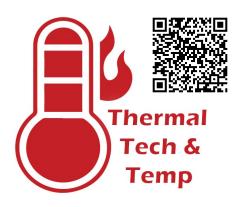
Straight to Set-Point Mode



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





How to Change the Temperature Scale on a Eurotherm Controller

	The "page" key
کے	The "cycle" key
\triangle	The "up" key
\bigvee	The "down" key

Note: If ever lost in the settings it is safer to power cycle the controller and start over.

Set up:

- Power down the controller
- Restart the controller while holding down
- Continue holding until "Code" is displayed
- Using the △ and ∨ keys enter "4"
- You will see "Set 1"
 - o Enter the code, "KCXH3"
- Press the & key to cycle to the next screen
- You will see "Set 2"
 - o Enter the code, "XXXXT"
- Press the 🖔 key to cycle to the next screen
- You will see "Exit"
 - o Us the key to change to, "Yes"
- The controller will reset