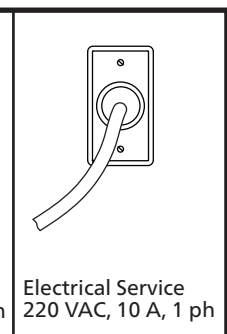
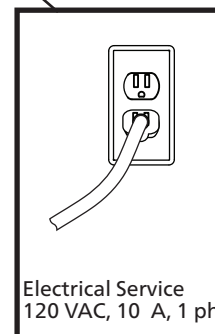
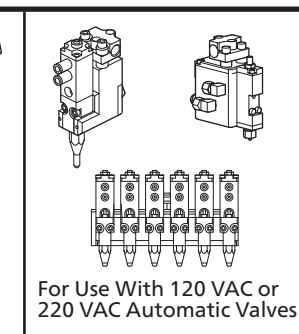
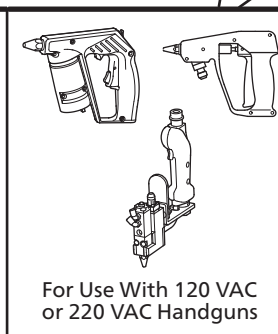
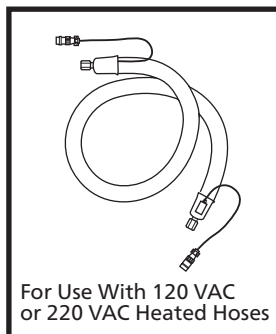
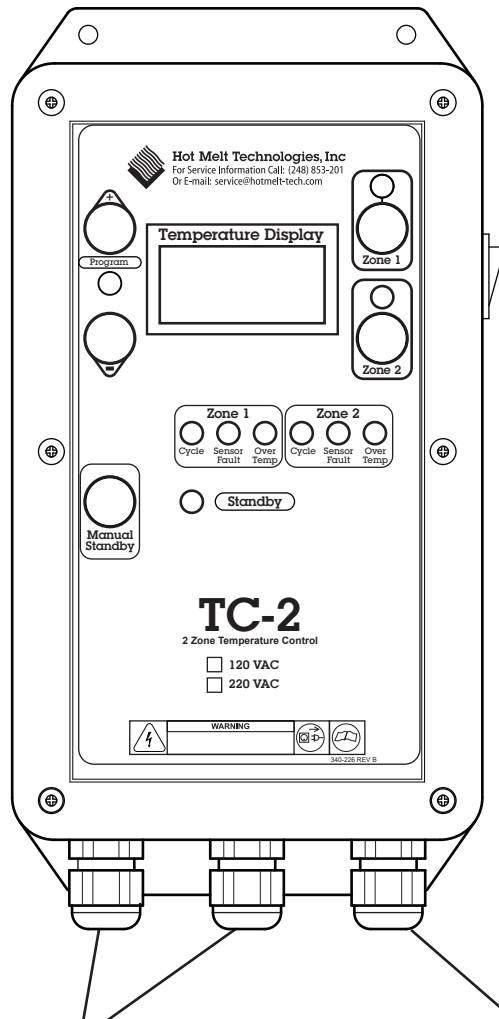




## TC-2 Temperature Controller, 2-Zone

The TC-2 is a Two Zone Temperature Controller with Manual Standby. The TC-2 is configured to control the temperature of **two (100Ω) RTD monitored zones independently**. Manual Standby reduces the zone temperatures by 50% with the push of a button. TC-2 Temperature Controllers are available in either 120 VAC or 220 VAC.

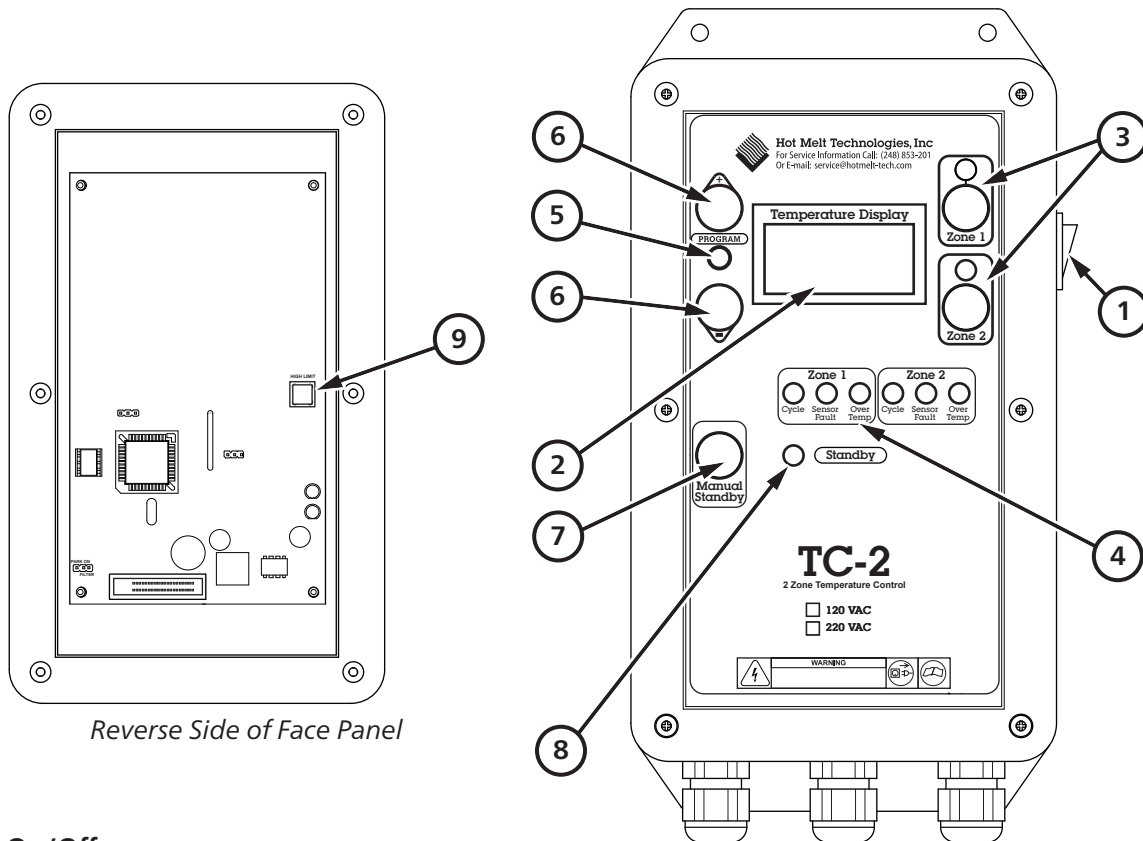


**Maximum Current: 5 Amps per Zone**





## TC-2 Programming Guide



Reverse Side of Face Panel

- ① **Power On/Off**
- ② The **Temperature Display** shows the actual temperature of the zone illuminated or the corresponding set temperature when either zone button is depressed. In Program Mode the Temperature Display shows the set temperature and any adjustment that is being made to the set temperature.
- ③ **Zone 1 and Zone 2** contain a button and an LED. The buttons can be used to toggle between Zone 1 and Zone 2. While depressed the Temperature Display will show the set temperature of the corresponding zone. When released the actual temperature of the zone is displayed. Temperatures shown on the Temperature Display correspond to the Zone LED that is lit.
- ④ The **Zone 1 and Zone 2 Status LEDs** indicate the current state of the zone.
  - Cycle LED:**  
If this LED is lit the zone heater is active.
  - Sensor Fault LED:**  
Illuminates if an RTD is either not connected to the zone or in a fault condition.
  - Over Temp LED:**  
Illuminates when zone temperature exceeds the High Limit by 25° F. When an Over Temp occurs both zones become inactive. TC-2 must be shut off and turned back on to resume operation.
- ⑤ The **Program LED** illuminates when the TC-2 is in Program Mode. Zone Set Temperatures can be adjusted in Program Mode Only. To initiate Program Mode hold down either the Zone 1 or Zone 2 button for 3 seconds. With the Zone 1 or Zone 2 Button still depressed use the +/- buttons to adjust the set temperature for the respective zone. When the zone button is released the TC-2 will exit Program Mode.
- ⑥ **+/- Buttons** adjust the set temperature while in Program Mode or the High Limit.
- ⑦ The **Manual Standby Button** places both zones into Standby when depressed. Standby automatically reduces the operating temperature to 50% of the set temperature.
- ⑧ The **Standby LED** illuminates when the TC-2 is in Standby Mode.
- ⑨ The **High Limit** function prevents users from exceeding a maximum temperature and can be set using the Hi Limit Button located on the reverse side of the face panel. Simply press and hold the Hi Limit Button and use the +/- Buttons to adjust the setting (100° F to 475° F). Over Temp status is 25° F above the Hi Limit.

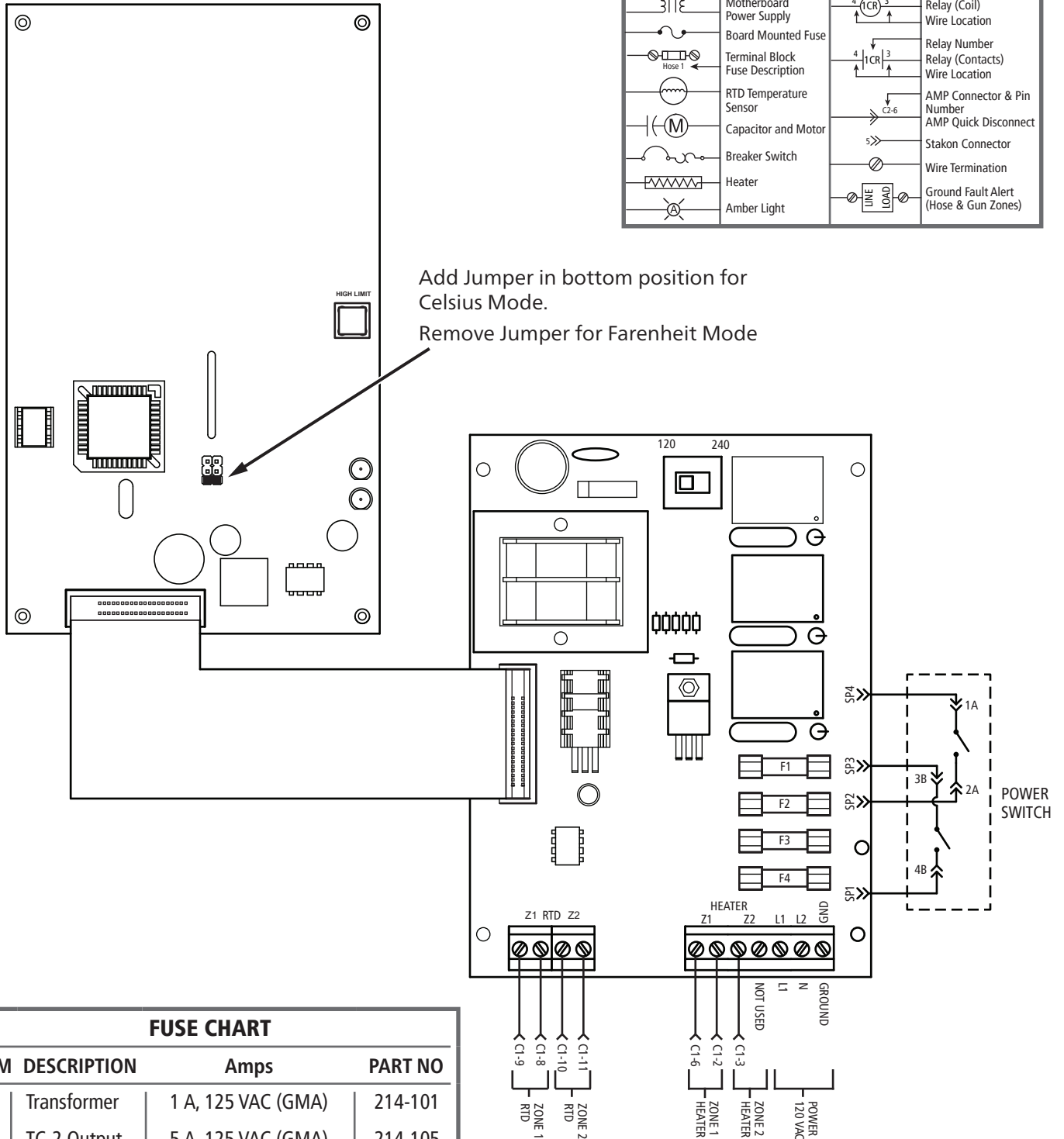




## TC-2-2, Wiring Schematic, 120 VAC

### SYMBOL LEGEND

	24V Transformer		Relay Number
	Motherboard Power Supply		Relay (Coil)
	Board Mounted Fuse		Wire Location
	Terminal Block Fuse Description		Relay Number
	RTD Temperature Sensor		Relay (Contacts)
	Capacitor and Motor		Wire Location
	Breaker Switch		AMP Connector & Pin Number
	Heater		AMP Quick Disconnect
	Amber Light		Stakon Connector
			Wire Termination
			Ground Fault Alert (Hose & Gun Zones)

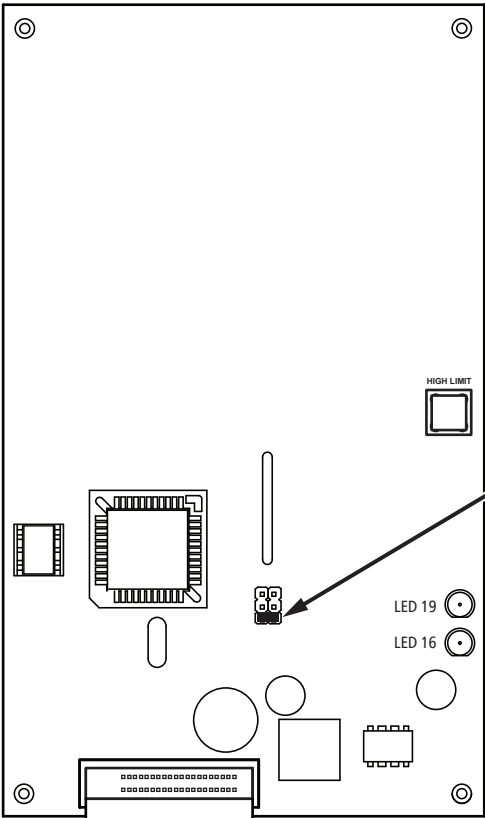




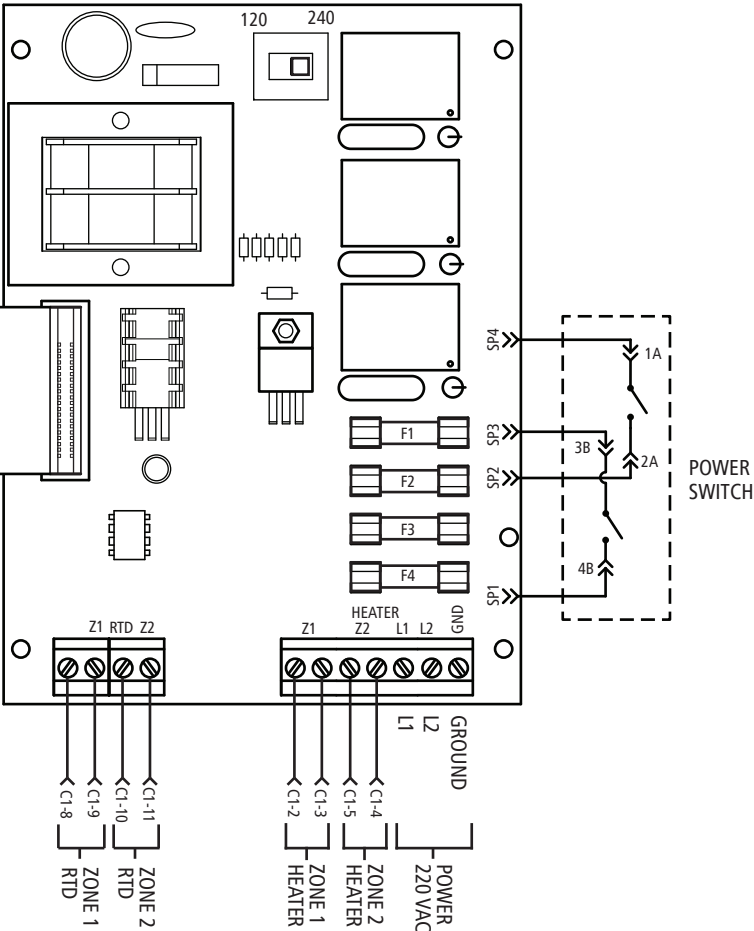
# TC-2-2, Wiring Schematic, 220 VAC

## SYMBOL LEGEND

	24V Transformer		Relay Number
	Motherboard Power Supply		Relay (Coil)
	Board Mounted Fuse		Wire Location
	Terminal Block Fuse Description		Relay Number
	RTD Temperature Sensor		Relay (Contacts)
	Capacitor and Motor		Wire Location
	Breaker Switch		AMP Connector & Pin Number
	Heater		AMP Quick Disconnect
	Amber Light		Stakon Connector
			Wire Termination
			Ground Fault Alert (Hose & Gun Zones)



Add Jumper in bottom position for Celsius Mode.  
Remove Jumper for Farenheit Mode



### FUSE CHART

ITEM	DESCRIPTION	Amps	PART NO
F1	Transformer	1 A, 125 VAC (GMA)	214-101
F2	TC-2 Output	5 A, 125 VAC (GMA)	214-105
F3	Transformer	1 A, 125 VAC (GMA)	214-101
F4	TC-2 Output	5A, 125 VAC (GMA)	214-105

