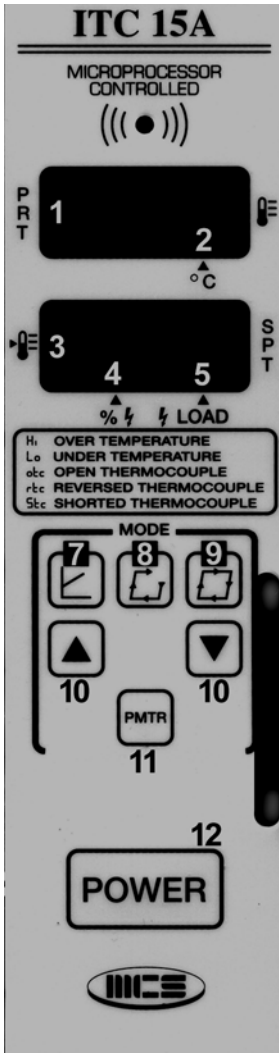




ITC-15A TEMPERATURE CONTROLLER

OPERATOR'S MANUAL



BASIC OPERATION

1. Turn power Switch on.
2. The normal operating modes are Ramp Start and Closed loop, which are automatically selected on power up. Select Manual mode if needed, once selected the controller will power up in Manual mode.
3. Select setpoint temperature (or % power in manual mode) by using the up / down keys.
4. After making any changes to modes or the setpoint wait for 'Str' to appear on the display. This indicates that the changes have been put into the non-volatile memory. The module will now remember these settings each time it is powered up.

CONTROLS AND DISPLAYS

- 1. Upper digital display**
Displays:
 - Process temperature
 - Error Conditions
- 2. Decimal**
Indicating unit is displaying temperature in °C
- 3. Lower digital display**
Displays the present setpoint
- 4. Decimal point**
Indicates that the display is showing percent power (Manual mode)
- 5. Decimal point**
Power to heater indicator
- 6. Audible alarm**
Use parameter 'AL' to turn ON or OFF
- 7. Ramp Start switch**
Press to enter Ramp Start mode. LED lights to indicate that the unit is in Ramp Start mode. When the controller detects that the heater temperature is below 212° F or 100° C, it automatically initializes Ramp Start mode at cold start up. The unit will enter Automatic mode after Ramp Start expires. (5 min.)
- 8. Open loop switch**
Press to enter Manual mode. LED lights when the unit is in Manual mode. For 100% power to the heater, press and hold the open loop switch.
- 9. Closed loop switch**
Press to enter Automatic mode. LED lights when unit is in Automatic mode. For 100% power to the heater press and hold the closed loop switch.
- 10. Up / Down keys**
Used to change the following:
 - Setpoint (Automatic mode / Ramp Start mode)
 - Percentage of power applied to the heater (Manual mode)
 - To change the values in the parameters mode
- 11. Parameter keys**
Used to select parameters* (see reverse side)
- 12. Power switch**
Controls power to the module. **MUST BE SET TO OFF BEFORE REMOVING MODULE.**

ITC-15A PARAMETER CHART

Code	Description	Values	Default Value
C-F	Celsius / Fahrenheit: Temperature display mode	C / F	C
TCB	Thermocouple Break: In the event of a thermocouple break after controlling setpoint. The controller can maintain setpoint temperature when APO is selected.	OFF / APO	APO
AL	Audible Alarm	ON / OFF	ON
OUT	Output Type: Selects the controller's temperature controlling algorithm. Fuzzy Logic or PID	FZY / PID	FZY
UTA	Under Temperature Alarm	5 – 30	30
OTA	Over Temperature Alarm	5 - 30	30
TOH	Open Triac or Open Heater: When the controller detects power to the heater with no rise in temperature. The controller will set this alarm in the amount of time selected.	0 – 255 Sec.	180
HIA	Maximum Current: The controller will stop applying power to the heater and set an alarm condition if the current (AMPS) is greater then the amount selected. To calculate the Maximum Current take the wattage of the heater and divide by the voltage applied plus 10% i.e. (2400W / 240V) + 10% = 11 Amps	1.0 – 16.0 Amps	16.0
BST	Boost: The controller can boost its setpoint between 30° and 100° for 30 Sec. Each time the boost button is pressed. *This feature requires optional mainframe hardware.	30° – 100° (F)	30
RSL	Ramp Start Lock: When ON is selected, Automatic Mode and Manual Mode are disabled until the Ramp Start routine is completed. This parameter is highly recommended ON.	ON / OFF	ON
PAD	Keypad Lockout: LOC Disables all keys except the PMTR key to prevent unwanted changes to be made. ULC Enables	LOC / ULC	ULC

* To enter the controller's parameters, press the PMTR key on the keypad. Use the up/Down keys to make changes. To exit the parameter menu, you must scroll through all parameters until STR (Store Settings) appears in the display. At this point the controller will continue normal operation.