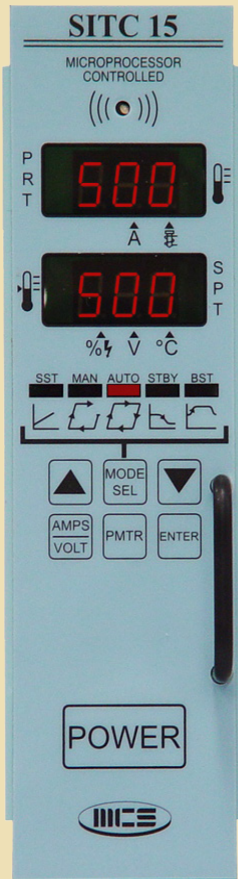




SITC-15



Mold Control Systems, Inc. provides exceptional quality and reliability to the Plastics Industry with its **Advanced Intelligence Series™** line of hotrunner controller systems. With the SITC-15, we bring a feature rich temperature controller with a simple intuitive design at a low cost.

The SITC-15 frontpanel is designed to be rugged and informative with its dual digital display, keypad, and audible alarm. The dual digital seven segment LEDs, display Set-Point and Process temperatures simultaneously, error indication with audible alarm, and decimal point LEDs indicate degrees C, manual percentage output, current, voltage, and load.

The simple keypad with audible response provides easy access to current and voltage displays, mode selection, parameters, and set-point adjustment, and Power ON/OFF.

The advanced precision output control algorithm of the SITC-15 enhances heater life by minimizing electrical stress. Fuzzy logic phase and burst algorithm provides precise control accuracy of $\pm 1^\circ\text{F}$ or 0.5°C . Its auto self-tuning capabilities provide precise power control response to heaters of any size. In the event of a thermocouple break at set-point temperatures, the controller will initiate an automatic bumpless control without the need for operator intervention.

Features:

- **Control Accuracy of $\pm 1^\circ\text{F}$ (0.5°C) over full range**
- **AUTO SOFT-START, MANUAL percentage power, and AUTO closed loop modes**
- **Onboard AUTO and MANUAL STANDBY and BOOST modes**
- **Amperage and Voltage measurement reading $\pm 5\%$**
- **Type J and K thermocouple input**
- **Automatic Power On after outage (selectable)**
- **Output voltage compensation**
- **Audible Alarm for faults**
- **Anti-Arc Protection**
- **Thermocouple Input High Voltage Fuse and Diode Protection**
- **Over Current protection**
- **Shorted TRIAC/Heater protection**
- **Input Power Fuse Protection**
- **Real-time fault detection**



SITC-15 Features:

Fuzzy Logic Phase and Burst Algorithm Control
Process Temperature and Set-point Displays
Amperage and Voltage Measurement Display
Mode Select: Auto Soft-Start below 212°F or 100°C Manual Percentage Power (Open Loop) Automatic (Closed Loop) Auto/Manual Standby Auto/Manual Boost
Real-Time Fault Detection: High Temperature Low Temperature Open Thermocouple Pinched Thermocouple Reverse Thermocouple Shorted Heater/TRIAC Open Heater/TRIAC Over Current Protection
Audible Alarm for Fault Detection
Type J and K Thermocouple
Grounded or Ungrounded Thermocouple
Automatic Bumpless Control for Thermocouple Break when at Set-Point Temperature
Thermocouple Input High Voltage Fuse Protection
Selectable Degrees C or F
Anti-Arc Protection
Auto Power On (Selectable)
15 Amp / 240 VAC

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10501 South Orange Ave.
Suite #108
Orlando, Florida 32824

Phone: (407) 855-2899
Fax: (407) 855-2855