Control Modules

World Series

The SISE "World Series" is a microprocessor based single zone temperature controller specially designed for hot runner applications and compatible with all standard mainframes.

The controller features a unique user-friendly «Click and Rotate» control button, two Red and Green 3-digit LED displays, and discrete indicators for Manual Mode, Heating Power and Soft Start mode.



STANDARD FEATURES :

- SISE Permanent Auto-Tuning Software
- Type J or K Thermocouple input
- Temperature in °C or °F
- Heater Output percentage monitor
- Triac and load protection with two high speed fuses (15 Amp)
- High and Low temperature alarms
- Current monitoring
- Thermocouple Short and Reversed Alarms
- SoftStart feature (Graduated phase angle control)

ADVANCED FEATURES :

- Adjustable setpoints
- Automatic transfer from Auto to Manual mode in case of Thermocouple failure (User selectable)
- Intelligent Anti-Arcing system (Allows safe removal of the controller, Detected automatically if mainframe is equipped
- Heater monitoring and alarm (Detects if heater is partly damaged)
- Load protection by built-in relay in case of triac short or error condition
- Controller locking function (user selectable)
- Selectable controller state on restart

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Control Algorithm	:	SISE Permanent Auto-Tuning Software
Control Accuracy	:	+/- 0.1 ° C or F dependent on selected unit
Temperature Unit	:	°C or °F (menu-selectable)
Temperature Range	:	0 to 500 °C (32 to 932 °F)
Thermocouple	:	Type ”J” or ”K” grounded or ungrounded (Menu-selectable)
Cold Junction compensation	:	Automatic

Voltage	:	240 Vac nominal
Frequency	:	50 or 60 Hz
Power	:	15 Amperes, 3600 Watts @ 240 Vac
Isolation	:	Optically and transformer isolated (Isolation voltage 1500 V)
Output	:	Phase fired during softStart and then ac zero crossing pulses
SoftStart (1)	:	Phase fired 5 minutes / 100°C (212°F) max / 15% Output Power
SoftStart (2)	:	User adjustable Ramp Rate in degrees per minute
Overload Protection	:	High Speed fuses on both sides
Load Protection	:	Built-in relay interrupting current to the load in case of triac short

Controls	:	Single easy-to-use ”Click and Rotate” button
Temperature indication	:	Upper display, 3 Red LED Digits
Setpoint & Alarm Messages indications	:	Lower display, 3 Green LED Digits
Indicators	:	Manual and SoftStart Modes
Heating Indication	:	Indicator flashes according to Output power level
Heater Output Percentage Monitoring	:	In Percent, Lower display, 3 Green LED Digits
Current Monitoring	:	In Amperes (0.1), Lower display, 3 Green LED Digits
Installed Power Indication	:	In Watts or kW, 3 Green LED Digits