



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





World Series



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

