



MX HOT RUNNER

Injection Molding Temperature Control Systems

Improve your injection molding output...switch to Tempco's MX Hot Runner Temperature Control System

The MX System includes:

- ▶ Mainframes
- ▶ 2 types of Temperature Control Modules
- ▶ Cables—Heater Power and Thermocouple
- ▶ Wiring Junction Boxes
- ▶ Input Connectors
- ▶ Floor Stands
- ▶ Accessories

Temperature Control Modules



Tempco's **IMP Series Module** provides one of the most technically advanced temperature controls available today. IMP modules use state-of-the-art microprocessor-based circuitry to perform all required PID functions. Units have built-in diagnostics and are fully self-tuning. Setpoint temperatures are maintained without the need to manually preset or adjust the control temperature. Merely set the desired temperature and turn the power on. The module will automatically sense the heat-up rate and control any setpoint temperature deviation.

Design Features

- * PID Control
- * CompuStep® Soft Start
- * CompuCycle®
- * Manual Control

Part Number: TKA20001

Specifications

Temperature Range: Ambient to 999°F (535°C)

Sensor Input: Type J thermocouple

Control Accuracy: ±1.0°F (±0.5°C), dependent on total thermal system

Calibration Accuracy: Better than 0.2% of full scale

Voltage: 240 VAC standard, 120 VAC available

Power Output: 15A @ 240 or 120 VAC 50/60 Hz

Output Switch: Internal zero cross triac

Fusing: High speed fuses on both sides of line

Setpoint Control: Precision 3-digit pushbutton

Manual Power Control: Single turn potentiometer

Mode Control:

3 Positions: Top—Manual mode; Middle—Auto mode; Bottom—Auto mode with soft start



Tempco's **RMB Temperature Control Module** represents the state of the art in Hot Runner temperature control technology. Virtually every feature a mold designer could want is contained in the module. The RMB's flexible microprocessor-based programming allows the user to modify 17 parameters via the front panel. Once entered, the non-volatile memory automatically saves the parameter modifications.

Design Features

- * CompuStep®
- * CompuCycle® Soft Start
- * Easy Start-Up Procedure
- * High and Low Deviation Alarms
- * Open Thermocouple Error Programming
- * Dual Digital Display
- * Advanced Diagnostics
- * Current Monitor

Part Number: TKA20005

Specifications

Temperature Range: 32 to 999°F (0 to 535°C)

Sensor Input: Type J or K thermocouple, switch selectable

Control Accuracy: ±0.1°F (±0.1°C) dependent on total thermal system

Calibration Accuracy: Better than 0.2% of full scale

Voltage: 115 to 230 VAC, ±10%

Power Output: 15A @ 240 or 120 VAC 50/60 Hz

Output Switch: Internal zero cross triac

Fusing: High speed fuses on both sides of line

Setpoint Control: two buttons—up and down

Manual Power Control: two buttons—up and down

Mode Control:

3 LEDs: Top/Manual mode

Middle—Auto mode

Bottom—Auto mode with soft start