



RMT15 Hot Runner Control

INTELLIGENT SERIES • DUAL ZONE CONTROLS • LOW COST

**2 RMB's
in
1 Unit!**



- Accepts Type J thermocouple input.
- Bumpless auto/manual transfer.
- CompuStep® bakeout feature prevents moisture at startup.
- Built-in loop break, short, open, and reverse thermocouple protection.
- Open thermocouple break protection with jumper-selectable shutdown or average power output based on operation.
- Preset Alarms at 30°F (17°C).
- SafeChange™ "Hot Swap" feature allows safe removal and replacement of module.
- CE-compliant.

PPE's RMT Series module is a microprocessor-based, dual zone temperature controller specifically designed for runnerless molding applications. It features an easy-to-use operator keypad, four LED displays, and six discrete indicators for heat output, alarm, degree F/C indication, manual and closed loop mode. RMT modules are available in 15 amp version.

RMT modules provide fully self-tuning, line voltage compensating, automatic closed-loop temperature control over a wide range of operating conditions. A single chip microprocessor performs all the proportional, integral and derivative (PID) control functions required to maintain setpoint temperature. No operator calculations or presetting of values is needed.

PERFORMANCE SPECIFICATIONS

| | |
|---|---|
| Auto Control Mode | CompuCycle® system |
| Control Accuracy | ±0.1°F (±0.1°C) dependent on the total thermal system |
| Temperature Range | 100°F to 650°F, (37°C to 343°C) |
| Temperature Stability | ±0.5% of full scale over the ambient range of 32 to 131°F (0 to 55°C) |
| Calibration Accuracy | Better than 0.2% of full scale |
| Power Response Time °F/°C | Better than 0.3 seconds Jumper-selectable |
| CompuStep® System Control Mode | Variable stepping voltage, phase angle fired |
| CompuStep® System Duration | Approximately 5 minutes |
| CompuStep® System Output Voltage | Steps approximately from 25 V RMS with 240 VAC line output, phase fired |
| CompuStep® System Override Temperature | 200°F (93°C) |
| Operational Mode Priority | a) TC open, TC reverse, Shutdown and Open heater override CompuStep® System b) Manual mode overrides TC open, TC reverse |

OUTPUT SPECIFICATIONS

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|-----------------------------|---|
| Voltages | 240 VAC nominal, single phase, 120 VAC available |
| Power Capability | 15 Amps, 3600 watts @ 240 VAC, (Total both channels) |
| Overload Protection | Triac and load use high speed fuses. Both sides are fused (GBB). |
| Power Line Isolation | Optically and transformer isolated from AC lines. Isolation voltage is greater than 2500 volts. |
| Output Drive | Internal solid state triac, triggered by ac zero crossing pulses. |

INPUT SPECIFICATIONS

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|--------------------------------------|---|
| Thermocouple (TC) Sensor | Type "J" grounded or ungrounded (jumper-selectable) |
| External (TC) Resistance | Maximum 100 ohms for rated accuracy |
| TC Isolation | Isolated from ground and supply voltages |
| Cold Junction Compensation | Automatic, better than 0.02°F/°F (0.01°C/°C) |
| Input Impedance | 10 Megohms |
| Input Protection | Diode clamp, RC filter |
| Input Amplifier Stability °C) | Better than 0.05°F/°F (0.03°C/°C) |
| Power Supply Rejection Ratio | Greater than 70 dB |

CONTROLS AND INDICATORS

| | |
|-------------------------------|---|
| Setpoint Control | Two buttons up or down. Resolution: 1°F (1°C) |
| % Power Control | Two buttons up or down. |
| Mode Control | Push button switch with LED indicator for manual mode and closed loop |
| Display Top (QTY-2) | 3-digit filtered LED (red) |
| Display Bottom (QTY-2) | 3-digit filtered LED (green) |
| Status Indicators | Heat-current output Alarm °F/°C % output CompuStep® Closed Loop Manual |
| Power ON/OFF | Rocker switch, UL, CSA, VDE approved |

ELECTRICAL POWER SPECIFICATION

| | |
|---------------------------|---|
| Input Voltage | 240/120 VAC, ±10% - 20% |
| Frequency | 50 Hz ±3 Hz, 60 Hz ±3 Hz |
| DC Power Supplies | Internal generated, regulated and temperature compensated |
| Module Power Usage | Less than 3 watts, excluding load |

MODEL RMT15
 15 AMP 1-11.....\$270.00
 12+\$260.00
 (Requires "MFT" Mainframes)

**With SafeChange™
Hot Swap Feature!**



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