



RMB06 AND RMB12 SERIES OF NON MODULAR HOT RUNNER CONTROLLERS

Athena's new RMB/ Series non-modular hot runner control systems offer 6 or 12 zones of integrated control in a compact package design at an affordable price. The units are equipped with a full featured user-friendly operator keypad/LCD display and discrete indicators of heat, boost, closed loop, open loop, idle, and alarm for system status.

KEY FEATURES

- ▲ Compact package design
- ▲ Accepts "J" or "K" thermocouple input, grounded or ungrounded
- ▲ 6 (RMB06) or 12 (RMB12) zones of control with 15 amps per zone
- ▲ Built-in loop break, short, open, and reverse thermocouple
- ▲ CompuStep bake out feature prevents moisture at start up
- ▲ Adjustable set point limits
- ▲ "Boost" mode for temporary % of power output increase
- ▲ Remote input standby function
- ▲ Remote alarm output contacts
- ▲ Fan cooled
- ▲ Easily serviceable with optional spare parts
- ▲ Limited Two Year Warranty—Consult Factory

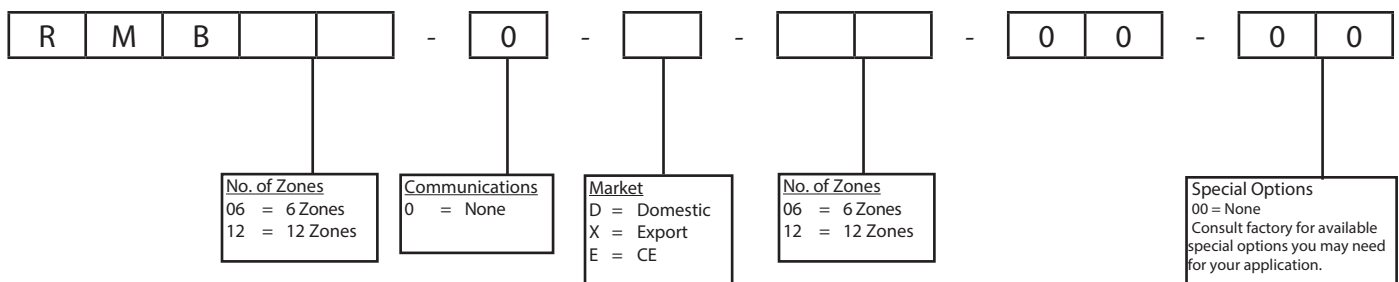


Model RMB 06 for temperature control of up to 6 zones



Model RMB 12 for temperature control of up to 12 zones

ORDERING INFORMATION



TECHNICAL SPECIFICATIONS

OPERATING LIMITS

| | |
|-------------------------|---------------------------|
| Absolute Voltage Limits | 240 Vac +10% -20% |
| Input Line Voltage | Nominal 120 to 240 Vac |
| Ambient Temperature | 32 to 122 °F (0 to 50 °C) |
| Relative Humidity | 90% non-condensing |
| Frequency | 50-60 Hz |

PERFORMANCE

| | |
|-------------------------|--|
| Auto Control Mode | CompuCycle system (PWM, 200 ms) |
| Control Accuracy | ±0.1°F (±0.1 °C) dependent on the total thermal system |
| Temperature Stability | 0.5% of full scale over the ambient range |
| Calibration Accuracy | Better than 0.2% of full scale |
| Power Response Time | Better than 400 ms |
| Process Sampling | 100ms |
| °F / °C | Field Configurable |
| CompuStep System | |
| Control Mode | PWM |
| Duration | Approx 5 min |
| Output Voltage | PWM % with zero cross |
| Override Temperature | 200°F (93°C) |
| Operation Mode Priority | A: T/C open, T/C reverse, Shutdown and open heater override CompuStep B: Manual mode overrides T/C open, T/C reverse. |

INPUT SPECIFICATIONS

| | |
|------------------------------|--|
| Thermocouple | Type J or K grounded or ungrounded |
| External T/C Resistance | Max 100 Ohms for rated accuracy |
| T/C Isolation | Channel to channel common mode voltage +/- 1.5 Vdc |
| Cold Junction Compensation | Automatic, better than 0.02 °F/°F (0.03 °C/°C) |
| Input Impedance | 10 megaohms |
| Input Protection | Diode clamp RC filter |
| Input Dynamic Range | Greater than 999 °F (537 °C) |
| Common Mode Rejection Ratio | Greater than 100dB |
| Power Supply Rejection Ratio | Greater than 70dB |

OUTPUT SPECIFICATIONS

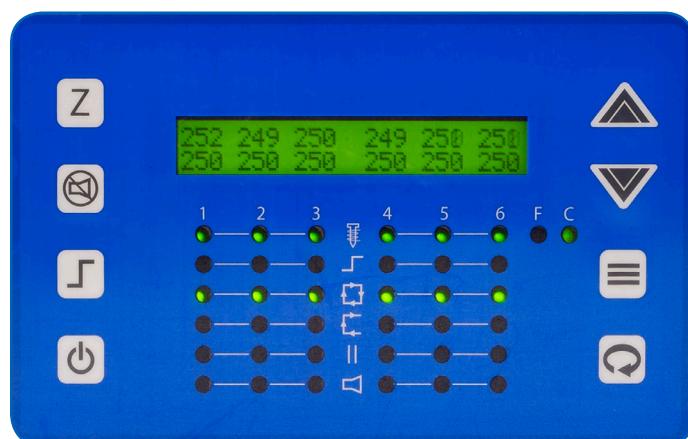
| | |
|----------------------|---|
| Voltages | 240Vac nominal, single phase 120Vac available |
| Power Capability | 15 Amps, 3600 W@ 240Vac per zone |
| Overload Protection | Type ABC fuses |
| Power Line Isolation | Optically and transformer isolated from AC lines. Isolation voltage is greater than 2500 volts. |
| Output Drive | Internal solid state triac |

HUMAN INTERFACE

| | |
|---|------------------------|
| 8 Control switches, 6 Status LED's per zone | |
| Degrees - °F and °C - status indicators | |
| LCD Display | 2 line x 24 characters |

DIMENSIONS

| | |
|--------|--|
| Height | 6 in (152mm) |
| Width | RMB06 - 17.25 in (438mm) RMB12 - 22.25 in (565mm) |
| Depth | 13.5 in (343mm) |
| Weight | RMB06 - 17 lb (7.71kg) RMB12 - 20 lb (9.07kg) |



Specifications are subject to change without notice.



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