

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Honeywell](#) /

› [Honeywell RM7840L1075 Automatic Programming Control User Manual](#)

Honeywell RM7840L1075

Honeywell RM7840L1075 Automatic Programming Control

Model: RM7840L1075

1. PRODUCT OVERVIEW

The Honeywell RM7840L1075 is an integrated burner control designed for gas, oil, coal, or combination fuel single burner applications. This control unit provides advanced safety, functional capabilities, and features beyond standard controls, including a Valve Proving Feature. It is essential for safe and efficient operation of industrial burner systems.



Figure 1: Front view of the Honeywell RM7840L1075 Automatic Programming Control unit. The unit is blue with a black front panel section displaying green LED indicators for Power, Pilot, Flame, Main, and Alarm, and a blue Reset button. The Honeywell logo is visible on the front.

2. KEY FEATURES

- Functions include automatic burner sequencing, ensuring a safe and controlled startup and shutdown process.
- Provides reliable flame supervision to detect and respond to flame presence or absence.
- Offers comprehensive system status indication through five dedicated LEDs.
- Includes system or self-diagnostics and troubleshooting capabilities, with the Power LED blinking fault codes on Lockout.
- Allows for external electrical voltage checks for easier maintenance and verification.
- Features application flexibility and communication interface capability for integration into various systems.
- Equipped with a five-function Run/Test Switch for operational control and testing.
- Incorporates a Valve Proving Feature for enhanced safety.

3. WHAT'S IN THE BOX

Upon unpacking, ensure all components are present and undamaged:

- Honeywell RM7840L1075 Automatic Programming Control Unit

Note: The RM7840 requires an S7800A1142 Keyboard Display for full functionality, which is typically sold separately.

4. SETUP AND INSTALLATION

Installation of the RM7840L1075 should only be performed by qualified personnel in accordance with all local and national electrical codes and regulations. Ensure power is disconnected before beginning any installation procedures.

4.1 Mounting

The unit is designed for wall mounting. Select a location that is free from excessive vibration, moisture, and extreme temperatures. Ensure adequate clearance for wiring and ventilation.

- Securely mount the control unit using appropriate fasteners.
- Ensure the mounting surface is stable and can support the weight of the unit.

4.2 Wiring

Refer to the detailed wiring diagrams provided with the product packaging for specific connections. All wiring must comply with applicable electrical standards.

- Connect power supply to the designated terminals.
- Connect burner components (igniter, flame sensor, fuel valves) to their respective terminals.
- Ensure all connections are secure and properly insulated.
- Verify external electrical voltage checks as needed.

4.3 Keyboard Display (S7800A1142)

The RM7840L1075 requires the S7800A1142 Keyboard Display for programming and detailed status monitoring. Connect the keyboard display unit as per its own instruction manual.

5. OPERATING INSTRUCTIONS

Once installed and wired, the RM7840L1075 controls the burner sequencing automatically. The front panel LEDs provide immediate status feedback.

5.1 LED Indicators

- **POWER:** Indicates the unit is receiving power.
- **PILOT:** Indicates the pilot flame is established.
- **FLAME:** Indicates the main flame is established.
- **MAIN:** Indicates the main burner is active.
- **ALARM:** Indicates a fault condition or lockout.

5.2 Run/Test Switch

The five-function Run/Test Switch allows for various operational modes and diagnostic tests. Refer to the S7800A1142 Keyboard Display manual for detailed instructions on using this switch for specific tests and programming.

5.3 Reset Button

In case of a lockout condition indicated by the ALARM LED, press the RESET button to attempt to clear the fault and restart the sequence. If the fault persists, refer to the Troubleshooting section.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Honeywell RM7840L1075 control unit. Always disconnect power before performing any maintenance.

- **Periodic Inspection:** Visually inspect the unit and wiring for any signs of wear, damage, or loose connections.
- **Cleaning:** Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Functional Checks:** Periodically test the system's safety functions and sequencing as recommended by the burner system manufacturer.

7. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed diagnostics, refer to the S7800A1142 Keyboard Display manual and the specific fault codes.

Problem	Possible Cause	Solution
Unit not powering on (POWER LED off)	No power supply; loose wiring.	Check power source and wiring connections. Ensure circuit breaker is on.
ALARM LED illuminated or POWER LED blinking	System lockout; fault detected.	Press the RESET button. If fault persists, consult the S7800A1142 Keyboard Display for specific fault codes and refer to the detailed troubleshooting guide.
Burner fails to ignite	No fuel supply; igniter issue; flame sensor fault.	Verify fuel supply. Check igniter and flame sensor connections and functionality.
Unexpected shutdown during operation	Flame loss; safety interlock tripped.	Check flame sensor. Inspect all safety interlocks in the system.

8. SPECIFICATIONS

Attribute	Value
Model Number	RM7840L1075
Brand	Honeywell

Attribute	Value
Operation Mode	Automatic
Contact Type	Normally Open
Connector Type	Screw
Terminal	Screw
Circuit Type	1-way
Mounting Type	Wall Mount
Actuator Type	Push Button
Contact Material	Copper
International Protection Rating	IP00
Package Dimensions	8 x 8 x 8 inches
Item Weight	6 Pounds

9. WARRANTY INFORMATION

Honeywell products are manufactured to high standards and are typically covered by a limited warranty. For specific warranty terms and conditions applicable to the RM7840L1075, please refer to the warranty documentation included with your purchase or visit the official Honeywell website. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, replacement parts, or further information regarding your Honeywell RM7840L1075 Automatic Programming Control, please contact Honeywell customer support or visit their official website:

- **Honeywell Official Website:** www.honeywell.com
- **Honeywell Support:** Refer to the contact information provided on the official website for your region.

When contacting support, please have your model number (RM7840L1075) and any relevant fault codes or system information ready.

