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Honeywell Q7800A1005

Honeywell Q7800A1005 Wiring Subbase User Manual

Model: Q7800A1005

INTRODUCTION

The Honeywell Q7800A1005 Wiring Subbase is a critical component designed for use with Honeywell 7800 SERIES Relay Modules. This panel-mount subbase facilitates organized and secure electrical connections, allowing for efficient wiring of control systems prior to the installation of the relay module. It is engineered to provide a reliable interface for various industrial and commercial applications requiring precise control and monitoring.

Key features include quick-mount wiring capabilities, compatibility with specific relay modules, and access slots for electrical measurements. The subbase is designed for panel mounting (Q7800A) or burner/wall mounting (Q7800B) and features a NEMA 1 enclosure for protection.

PRODUCT OVERVIEW



This image displays the Honeywell Q7800A1005 Wiring Subbase, featuring its array of numbered terminals for electrical connections. The central label provides product identification, temperature ratings, and safety certifications. Warning labels regarding electrical hazards are also visible.



A detailed view of the Honeywell Q7800A1005 Wiring Subbase, highlighting the individual screw terminals and the central product information label. The label specifies the model number, temperature range, and safety warnings, including a caution about disconnecting power before servicing.

Honeywell

7800 SERIES 22-Terminal Universal Subbase

PRODUCT DATA



Q7800B1003/2003/U
Metal Wall-mount
subbase

Q7800A1005/2005/U
Plastic Wall-mount
subbase

FEATURES

- Quick-mount wiring subbase for all 7800 SERIES Relay Modules and S7830 Expanded Annunciator.
- Allows wiring of control system before installation of relay module.
- Can be panel mounted (Q7800A) or burner or wall mounted (Q7800B).
- Access slots provided for electrical measurement.
- NEMA 1 enclosure.
- Electrical access slot covers provided with Q7800B; available as an option for Q7800A/

This image from the product data sheet illustrates two types of Honeywell 7800 Series 22-Terminal Universal Subbases: the Q7800B1003/2003/U metal wall-mount subbase and the Q7800A1005/2005/U plastic wall-mount subbase. It highlights key features such as quick-mount wiring, panel or wall mounting options, access slots for measurement, and NEMA 1 enclosure.

SETUP AND INSTALLATION

The Q7800A1005 subbase is designed for panel mounting. Proper installation is crucial for the safe and effective operation of your control system. Always ensure power is disconnected before beginning any wiring or installation procedures.

Subbase and Relay Module Compatibility

It is essential to verify the compatibility between the subbase and the relay module you intend to use. Incompatible modules can lead to system errors and malfunction.

Relay Module and Subbase Compatibility

NOTE: There are several different subbase models that can be purchased. It is important to note which subbase is compatible with the relay module when purchasing new, repair or replacement parts.

Series 1000 Relay Modules

All relay product codes that start with a 1 (example: RM7840G1014/U) can be used with existing subbase Q7800A1003/U and Q7800A1005/U.

Series 2000 Relay Modules

All relay product codes that start with a 2 (example: RM7840G2014/U) must be used with subbase Q7800A2003/U and Q7800A2005/U.

Subbase Compatibility

Any Relay Module in the 1000 Series with a Software Revision level number starting with a "5" or greater will be compatible with all subbase models both installed and newly purchased. This includes (Q7800A1005/U, Q7800B1003/U), and the 2000 Series subbases (Q7800A2005/U, Q7800B2003/U).

See Fig. 2 for Software Revision Level number location on the label (located on the rear of the relay module).

Wiring Subbase

This diagram provides crucial information on the compatibility between Honeywell relay modules and subbases. It details which subbases (Q7800A1005/U, Q7800B2003/U) are compatible with Series 1000 and Series 2000 relay modules. It also shows the location of the software revision on the relay module and warns about error code 101 for incompatible setups.

Any relay module in the new 2000 series will only be able to be installed on subbase Q7800A2005/U, Q7800B2003/U and will not be backward compatible with any Q7800A1003/U and Q7800A1005/U subbases already installed in the field.



Fig. 2. Software revision location.

IMPORTANT

Make sure to check the relay model number and the software revision level on the relay.

- If you attempt to place a 2000 series relay on a non-compatible 1000 series subbase, you will receive an error code of 101. This indicates that you must a) change out the subbase to a Q7800A2003/U or Q7800A2005/U or b) choose a compatible 1000 series relay module.

- **Series 1000 Relay Modules:** All relay product codes starting with '1' (e.g., RM7840G1014/U) are compatible with existing subbases Q7800A1003/U and Q7800A1005/U.
- **Series 2000 Relay Modules:** All relay product codes starting with '2' (e.g., RM7840G2014/U) must be used with subbases Q7800A2003/U and Q7800A2005/U.
- **Subbase Compatibility (Software Revision):** Any Relay Module in the 1000 Series with a Software Revision level number starting with a "5" or greater will be compatible with all subbase models both installed and newly purchased. This includes Q7800A1005/U, Q7800B1003/U, and the 2000 Series subbases (Q7800A2005/U, Q7800B2003/U). Refer to the diagram for software revision level number location on the label (located on the rear of the relay module).

Wiring the Subbase

The Q7800A1005 subbase provides clearly labeled terminals for wiring. Ensure all connections are secure and conform to local electrical codes. The subbase allows for wiring of the control system before the relay module is installed, simplifying the process.

- Identify the appropriate terminals for your application (e.g., Pilot, Main, Ignition).
- Use appropriate wire gauges as specified by your system requirements and local codes.
- Ensure all wires are stripped to the correct length and securely fastened under the screw terminals.
- Verify all connections for proper polarity and continuity before applying power.

OPERATION

The Honeywell Q7800A1005 Wiring Subbase is a passive component that serves as an electrical interface for Honeywell 7800 SERIES Relay Modules. Its primary function is to provide a stable and organized connection point for the control system's wiring. Once the relay module is properly seated and secured onto the subbase, the electrical connections are established, allowing the relay module to function as intended within the system.

There are no user-operable controls on the subbase itself. Its operation is entirely dependent on the proper installation of the associated relay module and the integrity of the wired connections.

MAINTENANCE

The Honeywell Q7800A1005 Wiring Subbase requires minimal maintenance due to its robust design and passive nature. However, periodic inspection is recommended to ensure continued reliable operation.

- **Visual Inspection:** Periodically inspect the subbase for any signs of physical damage, corrosion, or loose connections. Ensure all terminal screws are tight.
- **Cleaning:** If necessary, gently clean the subbase with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure no dust or debris accumulates within the terminals.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature wear or failure.

Safety Precaution: Always disconnect power to the system before performing any inspection or maintenance on the subbase or connected components.

TROUBLESHOOTING

Most issues related to the Q7800A1005 Wiring Subbase stem from improper installation or compatibility issues with the relay module.

- **System Not Functioning / Error Code 101:**
 - **Cause:** This often indicates an incompatibility between the relay module and the subbase. Specifically, if you attempt to place a 2000 Series relay on a non-compatible 1000 Series subbase, an error code of 101 may be generated.

- **Solution:**

1. Verify the relay module's series (1000 or 2000) and its software revision level.
2. Ensure the subbase model is compatible with your relay module as per the "Subbase and Relay Module Compatibility" section.
3. If incompatible, you may need to change the subbase to a compatible model (e.g., Q7800A2003/U or Q7800A2005/U for 2000 Series relays) or choose a compatible 1000 Series relay module.

- **Intermittent Operation / No Power:**

- **Cause:** Loose or incorrect wiring connections.
- **Solution:** Disconnect power and carefully inspect all terminal connections on the subbase. Ensure wires are securely fastened and correctly routed to their designated terminals.

- **Physical Damage:**

- **Cause:** Impact, excessive force during installation, or environmental factors.
- **Solution:** If the subbase is physically damaged (cracked housing, bent terminals), it should be replaced immediately to ensure safety and proper function.

For issues not covered here, or if troubleshooting steps do not resolve the problem, contact a qualified technician or Honeywell customer support.

SPECIFICATIONS

Attribute	Detail
Model Number	Q7800A1005
Brand	Honeywell
Part Number	Q7800A1005
Item Weight	0.01 ounces
Package Dimensions	5.91 x 5.79 x 2.68 inches
Color	Black
Material	Copper (terminals)
Item Package Quantity	1
Temperature Range	-40°F to 140°F (-40°C to 60°C)
Compatibility	Honeywell 7800 SERIES Relay Modules (refer to compatibility section)
Mounting Type	Panel Mount (Q7800A) or Burner/Wall Mount (Q7800B)
Enclosure Rating	NEMA 1

WARRANTY AND SUPPORT

For specific warranty information regarding the Honeywell Q7800A1005 Wiring Subbase, please refer to the documentation provided with your purchase or visit the official Honeywell website. Warranty terms and conditions may vary.

If you require technical assistance, have questions about installation, or need to report a product issue, please contact Honeywell customer support through their official channels. You can typically find contact information on the Honeywell website or within the

product packaging.

Honeywell Official Website: www.honeywell.com

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